



YOU ARE HEREBY INVITED TO BID FOR THE REQUIREMENTS OF THE WESTERN CAPE GOVERNMENT:
HEALTH & WELLNESS

BID NUMBER: TBH202/2025

CLOSING DATE: 18 JULY 2025

CLOSING TIME: 11:00 AM

FOR A FULL DIGITAL MAMMOGRAPHY (FFDM) INCLUDING A DIGITAL AND BREAST TOMOSYNTHESIS (TBT) SYSTEM, INCLUDING FLAT DETECTOR FOR SCREENING AND DIAGNOSTIC IMAGING, ACQUISITION WORKSTATION, STEREOTACTIC BIOPSY AND GUIDANCE SYSTEM, SPECIMEN SCANNER, CONTRAST ENHANCED MAMMOGRAPHY CAPABILITY FOR USE IN THE RADIOLOGY DEPARTMENT AT TYGERBERG HOSPITAL.

The successful bidder will be required to complete and sign a written contract form (WCBD7.1).

BID DOCUMENTS MUST BE POSTED
DEPOSITED IN THE BID BOX MARKED
"TENDER BOX" SITUATED IN:

TYGERBERG HOSPITAL
1ST FLOOR, ADMINISTRATION BUILDING
(OPPOSITE THE SPIRAL STAIRCASE)
FRANCIE VAN ZIJL DRIVE
PAROW
CAPE TOWN

The bid box will be accessible Monday to Friday
from 07h30 till 15h30, 5 days a week excluding
public holidays

Compulsory Site Meeting

Venue: Tygerberg Hospital, C-Lower Ground at the
Clinical Engineering Department
Date: 04 July 2025
Time: 11:00am

1. The Specification is provided to inform **Prospective Service Providers (PSP)** of the entire envisaged bid process, as well as the implementation of the phases of bidding.
2. You are therefore invited to bid for a full digital mammography (FFDM) including a digital and breast tomosynthesis (TBT) system, including flat detector for screening and diagnostic imaging, acquisition workstation, stereotactic biopsy and guidance system, specimen scanner, contrast enhanced mammography capability for use in the Radiology Department at Tygerberg Hospital. Prices must be consolidated onto the relevant WCBD3.1/2 forms, as this will serve as the bidder's official offer.
3. Please ensure that bids are delivered **to the correct address on time**. If the bid is late, it will not be accepted for consideration. If you are uncertain about the location of the bid box, please call the responsible official, Ms. RJ Janda at (021) 938 4765, or email: Tbh.BidsDepartment@westerncape.gov.za or Mr C. Miggel (021) 938 5269, or email Tbh.BidsDepartment@westerncape.gov.za / Mr S. Ntshaba at (021) 938 4980, or email: Tbh.BidsDepartment@westerncape.gov.za for assistance during office hours. The bid box is generally open during business hours **Monday to Friday from 07h00 till 15h00, 5 days a week excluding public holidays**.

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4. Please submit your bid on the official, **not re-typed** forms. Only original, signed documents will be considered. **Failure to complete and sign the bidding documents, certificates, questionnaires, and specification forms in all respects will invalidate the bid.**
5. Each bid must be deposited in a **sealed envelope** with the **name and address of the bidder, the bid number, and the closing date**. The envelope shall not contain documents related to any bid other than indicated on the envelope.
6. **All Bidders must be registered on the Central Supplier Database (CSD) at the time of bid closing.** Any prospective **unregistered bidders** must register as a supplier on the **CSD** prior to bidding.

Central Supplier Database	
Self-registration	www.csd.gov.za (self-registration only)
Contact email	SCMeProcurement.DOH@westerncape.gov.za

7. **Bidders already registered on the CSD** must have confirmation of their registration, by contacting www.csd.gov.za, AND ensure that their status is up to date prior to bidding.
8. **In instances where a bidder's tax compliance status cannot be verified or if a bidder's tax status is non-compliant on the CSD, the bidder will be afforded 7 working days to confirm tax compliance for the bid to be considered.**
9. Only the B-BBEE status reflected **on form WCBD 6.1 included in the bid document** will apply to the evaluation of the relevant formal bids and **not the B-BBEE status on CSD**. Bidders are further required to complete the attached **form WCBD4 and include it in the Bid document**.
10. All other mandatory documents held on CSD will be accepted by Western Cape Government Health & Wellness (WCGHW) for the consideration of formal bids.
11. Bidders must be duly **registered** on CSD at the **closing of the award**.

**** "duly registered"** means that a supplier is registered on the CSD by means of valid mandatory registration documents, including TCC or other documentation confirming the bidder's tax compliance status at the time of the award and WCBD4. If these documents have expired, the such supplier will be suspended on the WCSEB.

12. This bid is subject to the General Conditions of Contract (GCC) and, if applicable, any other Special Conditions of Contract. **The 80:20 or 90:10 Points System is applicable to this bid.**
13. Please refer to all technical/specification enquiries to Ms. Randy-Jade Janda on email: Tbh.BidsDepartment@westerncape.gov.za or Mr Chad Miggel on email: Tbh.BidsDepartment@westerncape.gov.za or Mr Siphumelele Ntshaba or email: Tbh.BidsDepartment@westerncape.gov.za


DEPUTY DIRECTOR: FINANCE AND SUPPLY CHAIN MANAGEMENT
TYGERBERG HOSPITAL
MR. N. MARTIN
DATE: 20 JUN 2025

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<u>CHECKLIST</u>	<u>COMPLETED</u>
WCBD 1	
SPECIFICATIONS	
WCBD 3.1	
WCBD 4	
WCBD 6.1	
SOUTH AFRICAN HEALTH PRODUCTS REGULATORY AUTHORITY (SAHPRA CERTIFICATE)	
OCCUPATIONAL HEALTH AND SAFETY CERTIFICATE	
PAMPHLETS, BROCHURES, AND TECHNICAL DATA SHEETS	
GENERAL CONDITIONS OF CONTRACT	

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PART A INVITATION TO BID

ZERO-TOLERANCE TO FRAUD, THEFT AND CORRUPTION (ANTI-FRAUD, THEFT AND CORRUPTION)

THE WCG IS COMMITTED TO GOVERN ETHICALLY AND TO COMPLY FULLY WITH ANTI-FRAUD, THEFT AND CORRUPTION LAWS AND TO CONTINUOUSLY CONDUCT ITSELF WITH INTEGRITY AND WITH PROPER REGARD FOR ETHICAL PRACTICES.

THE WCG HAS A ZERO TOLERANCE APPROACH TO ACTS OF FRAUD, THEFT AND CORRUPTION BY ITS OFFICIALS AND ANY SERVICE PROVIDER CONDUCTING BUSINESS WITH THE WCG.

THE WCG EXPECTS ALL ITS OFFICIALS AND ANYONE ACTING ON ITS BEHALF TO COMPLY WITH THESE PRINCIPLES TO ACT IN THE BEST INTEREST OF THE WCG AND THE PUBLIC AT ALL TIMES.

THE WCG IS COMMITTED TO PROTECTING PUBLIC REVENUE, EXPENDITURE, ASSETS AND REPUTATION FROM ANY ATTEMPT BY ANY PERSON TO GAIN FINANCIAL OR OTHER BENEFIT IN AN UNLAWFUL, DISHONEST OR UNETHICAL MANNER.

INCIDENTS AND SUSPICIOUS ACTIVITIES WILL BE THOROUGHLY INVESTIGATED AND WHERE CRIMINAL ACTIVITY IS CONFIRMED, RESPONSIBLE PARTIES WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.

YOU ARE HEREBY INVITED TO BID FOR THE REQUIREMENTS OF THE TYGERBERG HOSPITAL (TBH)					
BID NUMBER:	TBH202/2025	CLOSING DATE:	18 JULY 2025	CLOSING TIME:	11H00am
DESCRIPTION	FOR A FULL DIGITAL MAMMOGRAPHY (FFDM) INCLUDING A DIGITAL AND BREAST TOMOSYNTHESIS (TBT) SYSTEM, INCLUDING FLAT DETECTOR FOR SCREENING AND DIAGNOSTIC IMAGING, ACQUISITION WORKSTATION, STEREOTACTIC BIOPSY AND GUIDANCE SYSTEM, SPECIMEN SCANNER, CONTRAST ENHANCED MAMMOGRAPHY CAPABILITY FOR USE IN THE RADIOLOGY DEPARTMENT AT TYGERBERG HOSPITAL.				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT RCWMCH IN THE ADMINISTRATION BUILDING					
TYGERBERG HOSPITAL					
1 ST FLOOR, ADMINISTRATION BUILDING (OPPOSITE THE SPIRAL STAIRCASE)					
FRANCIE VAN ZIJL DRIVE					
PAROW, CAPE TOWN, 7500					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Mrs R.J. Janda		CONTACT PERSON	Ms M. Rossouw	
TELEPHONE NUMBER	021 938 4765		TELEPHONE NUMBER	Enquiries in writing	
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS	Tbh.BidsDepartment@westerncape.gov.za		E-MAIL ADDRESS	Tbh.BidsDepartment@westerncape.gov.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELL PHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					

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SUPPLIER COMPLIANCE STATUS	WCSEB No.		TCS Pin	AND	CSD No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	[TICK APPLICABLE BOX] ☐ Yes ☐ No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	[TICK APPLICABLE BOX] ☐ Yes ☐ No		
IF YES, WAS THE CERTIFICATE ISSUED BY A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM (SANAS)	[TICK APPLICABLE BOX] ☐ Yes ☐ No					
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/SWORN AFFIDAVIT (FOR EMES& QSEs) MUST BE SUBMITTED TOGETHER WITH A COMPLETED 6.1 IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]						
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?		☐ Yes ☐ No [IF YES, ANSWER PART B:3]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS						
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? ☐ YES ☐ NO DOES THE ENTITY HAVE A BRANCH IN THE RSA? ☐ YES ☐ NO DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? ☐ YES ☐ NO DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? ☐ YES ☐ NO IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? ☐ YES ☐ NO						
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.						

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1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED – (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (WCBD7).**

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) OR PIN MAY ALSO BE MADE VIA E-FILING THROUGH THE WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE WITH TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE AND CSD NUMBER AS MENTIONED IN 2.3 ABOVE.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID

SIGNATURE OF BIDDER:

.....

NAME AND SURNAME OF BIDDER:

.....

CAPACITY UNDER WHICH THIS BID IS SIGNED:

.....

(Proof of authority must be submitted e.g. company resolution)

DATE:

.....

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1. Instructions for Completing Bid Documents

Bidders are advised to read all the pages of this tender document carefully and to comply fully with all requests for information and documentation. Please acknowledge that conditions have been read and understood in the 'Comply' column by responding with either a 'Yes' or 'No' entry. Bidders are required to:

Condition	NOTES	
1. Complete all the documents and forms provided in this bid invitation document.		
2. Supply all the requested information.		
3. Number each page of the bid submitted and all the supporting documentation (the entire bid) in the top right-hand corner of each page.		
4. The numbering system used in this tender SHALL be adhered to. If there are additional and/or alternative product options, every option/alternative proposal to an item SHALL be separately quoted, with a complete schedule, description, deviations from specifications, and technical brochures on each proposal.		
5. Submit the bid under the cover of a full table of contents referencing all the documents contained therein about the relevant page numbers.		
6. Submit the bid in hard copy.		
7. Confirm in writing that the copy submitted is a true and complete reproduction of the original and contains all the annexures submitted to the Department.		
8. The bidder is to complete the bid response document by stating in the block opposite each subsection whether the bidder will comply or will not comply with the specifications in that subsection.		
9. A response of "Noted" SHALL be interpreted as "Comply" In addition, an explanatory note MUST be provided in a separate document with a clear reference to the corresponding paragraph number or beneath each point in the bid document. The numbering in the bid document may not be altered		
10. Items not completed in this manner SHALL be to the disadvantage of the bidder and, if excessive, SHALL lead to exclusion in the tender evaluation process		
11. All additional supporting documentation that is returned as part of this tender MUST be given a document number that is marked on each page of the document.		

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**WESTERN CAPE DEPARTMENT OF HEALTH & WELLNESS
TYGERBERG HOSPITAL**

THIS DOCUMENT SETS OUT THE SPECIFICATIONS:

**FOR A FULL DIGITAL MAMMOGRAPHY (FFDM) INCLUDING A DIGITAL AND
BREAST TOMOSYNTHESIS (TBT) SYSTEM, INCLUDING FLAT DETECTOR FOR
SCREENING AND DIAGNOSTIC IMAGING, ACQUISITION WORKSTATION,
STEREOTACTIC BIOPSY AND GUIDANCE SYSTEM, SPECIMEN SCANNER,
CONTRAST ENHANCED MAMMOGRAPHY CAPABILITY FOR USE IN THE
RADIOLOGY DEPARTMENT AT TYGERBERG HOSPITAL.**

BID NUMBER: TBH202/2025

NAME OF BIDDING COMPANY.....

NAME OF PRODUCT OFFERED.....

NAME OF BIDDER / CONTACT PERSON

CONTACT NUMBER.....(w)..... (cell)

NOTE: SHOULD THE ITEM OFFERED DEVIATE FROM ANY SPECIFIED REQUIREMENTS, FULL DETAILS OF SUCH DEVIATIONS MUST BE GIVEN. IN THE EVENT OF THE AVAILABLE SPACE BEING INSUFFICIENT, SUCH DETAILS MUST BE GIVEN ON A SEPARATE SHEET, INDICATING THE RELEVANT PARAGRAPH NUMBER IN THE SPECIFICATION.

THE "DETAILS OF OFFER" SECTION MUST BE COMPLETED IN FULL. FAILURE TO REPLY TO ALL SECTIONS WILL RESULT IN THE OFFER NOT BEING CONSIDERED.

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NOTE: BIDDERS MUST SPECIFY THE DETAILS OF THEIR OFFERS IN THE COLUMN ON THE RIGHT. IN RESPECT OF PARAGRAPH WHERE THE BIDDER STRICTLY COMPLIES WITH THE SPECIFICATION REQUIREMENT, THE WORDS "AS SPECIFIED" MUST BE INSERTED NEXT TO THE PARAGRAPH. IN CASES WHERE THE BIDDER DOES NOT STRICTLY COMPLY WITH THE SPECIFICATION REQUIREMENT, THE NATURE OF THE DEVIATION MUST BE STIPULATED NEXT TO THE APPLICABLE PARAGRAPH. WHERE THE SPACE IS INSUFFICIENT, THE DETAILS MAY BE ANNEXED BUT MUST BE PROPERLY REFERENCED. SIMILARLY, WHERE THE BIDDER IS REQUESTED TO SUBMIT CERTAIN DOCUMENTATION.		REPLY: COMPLY/DOES NOT COMPLY IN THE BOXES BELOW Add comments or attachments as required"
1.	SCOPE	
1.1	This specification establishes the requirements for a full digital mammography (FFDM), including a digital and breast tomosynthesis (TBT) system, including flat detector for screening and diagnostic imaging, acquisition workstation, stereotactic biopsy and guidance system, specimen scanner, contrast enhanced mammography capability for use in the radiology department, at Tygerberg Academic Hospital.	
1.2	The system on offer shall be licensed for sale in the South African market by a recognized supplier who can prove that service, spares and application support is available in South Africa to maintain the system at peak operating performance.	
1.3	Descriptive literature, pamphlets, brochures and technical data sheets applicable to the offer (i.e. all components of the system) shall accompany the bid, failing which the bid shall not be considered.	
1.4	A list of users in South Africa where the equipment, offered in this bid, is currently in clinical use shall be provided, indicating the current models and configurations per site. The Department of Health Western Cape Province reserves the right to independently verify the performance and support on the offered unit.	
1.5	If necessary, reference sites outside of South Africa may be supplied including full contact details (Name, telephone and email addresses)	
1.6	The system offered shall comply with or exceed all of the minimum performance specifications as indicated below for the various sub-components, supported by factory-supplied product specifications/brochures.	
1.7	The equipment and any accessories ordered from the successful Bidder shall be delivered, installed, tested, calibrated, demonstrated (including specified training) and commissioned in Tygerberg Hospital at the expense of the successful Bidder, prior to full payment being made.	
2.	REQUIREMENTS	
2.1	The request is for a full digital mammography (FFDM), including a digital and breast tomosynthesis (TBT) system, flat detector for screening and diagnostic imaging, acquisition workstation, stereotactic biopsy and guidance system, specimen scanner, contrast enhanced mammography capability and separate diagnostic workstation for radiologists reviewing station, for use in the RADIOLOGY Department Tygerberg Hospital. The unit shall be fully installed and fully functional, which shall include all the aspects as identified in the clauses below:	
2.2	The Bidder shall clearly indicate if their offered product complies with the stated requirements, by indicating, "Comply" or "Does not comply" next to the corresponding clauses;	

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2.3	The Bidder shall clearly state any parameter values or additional information as requested in the relevant clause. Failure to do so may lead to disqualification;	
2.4	The Bidder shall provide a clear pricing schedule listing all the requirements and the associated pricing;	
2.5	Any requested options and optional extras shall be clearly defined, and a separate itemised pricing schedule shall be provided by the Bidder;	
2.6	The Bidder shall clearly indicate if their offered product exceeds the stated requirement by noting with proof "Above specification" next to the corresponding clause;	
2.7	All responses shall be clear and legible;	
2.8	The offered system shall be of the latest technology. The Bidder shall state how long this technology has been commercially available as well as if any near future updates are expected. This is applicable to acquisition and processing workstations as well as all peripheral equipment.	
2.9	State the launch date of the latest software available on the offered system as offered in the Bid.	
2.10	State when the next model shall be released;	
2.11	State the life expectancy of the unit (in years) on offer;	
2.12	State the manufacturing company's policy regarding availability of spare parts after production of the offered unit stop;	
2.13	All prices shall include VAT and are to be firm prices in Rand. (A period of 90 days from the tender closing date is the minimum validity period).	
2.14	State the rate of exchange used in determining the Bid price.	
2.15	Specify how the rate of exchange influences the bid price (as example – Price of system = 80% of Bid Price determined at exchange rate as indicated on pricing sheet)	
2.16	If the product offered is unknown to the Department, the Department reserves the right to have the unit evaluated by a team of technical and clinical experts with regards to its functionality, performance and quality. The decision of this committee shall be used as a motivation for the acceptance or non-acceptance of the unit. For this reason, the Bidder shall take representatives of the Department to a site where a similar unit is installed and in clinical operation within 14 days of tender closure or as indicated. The cost for this site visit is for the account of the Bidder and it shall not place any obligation on the Department to procure from this specific Bidder. Failure to comply shall lead to disqualification of the Bid;	
2.17	Details shall be supplied where asked. This detail shall be taken into account during the adjudication process;	
2.18	Each offer shall be accompanied by a completed specifications document. Failure to comply with this instruction shall lead to the disqualification of the offer;	
2.19	Each offer shall include a list of all software/hardware options available on the system and individually priced which can be used in determining a final cost price after evaluation and adjudication of the tender - should the need arise. Standard hardware and software shall be indicated as such;	
2.20	Do not list items in the quote as "included" unless it is standard. Everything else will be priced and indicated if included in the total price (see clause above).	

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3.	APPLICABLE DOCUMENTS:	
3.1	General Conditions of Contract (Annexure A).	
3.2	Additional Conditions of Bid (Section B).	
3.3	Annexure C. (Complete and supply)	
3.4	DICOM Conformance Statement (supply in electronic format)	
3.5	Completed PACS/RIS Integration Document (Annexure A)	
3.6	International Certification (CE or FDA) must be supplied.	
3.7	IEC 601-1.	
3.8	IHE Conformance statement (Supply)	
3.9	Hazardous Substances Act No 15 of 1973. (Supply)	
3.10	International Certification (CE or FDA) must be supplied.	
3.11	All equipment, the installation and any alteration/additions shall comply with:	
3.12	SAHPRA (SOUTH AFRICAN HEALTH PRODUCTS REGULATORY AUTHORITY) REGISTRATION: Valid certified copy of SAHPRA certificate as a manufacturer, distributor or wholesaler of medical devices and IVD's must be included in your bid documents. A Valid Medicines Control Council certificate may also be considered. Failure to complete and submit the above documents will invalidate your bid. Proof of application for registration will NOT be accepted, only a VALID SAHPRA or MCC certificate shall be accepted	
3.13	Specification documents for all hardware and software must be supplied.	
3.14	Bidders to include in the offer proof that they are the accredited supplier by the original equipment manufacturer, and that the OEM undertakes to supply expertise, training and support to maintain the equipment.	
3.15	Any other documents that may be required to fulfil national regulations to comply with all Health and Safety standards as promulgated.	
4.	SPECIFICATIONS AND REQUIREMENTS:	
4.1	GENERAL:	
4.1.1	The breast imaging system shall be the latest technology system comprising a Tube stand (Gantry with C-arm) containing the x-ray tube and x-ray detection system including Tomosynthesis, stereotactic biopsy device, with contrast enhanced mammography capability, an acquisition workstation and specimen scanner and separate diagnostic workstation radiologist reviewing station	
4.1.2	The system shall be able to function normally in ambient room temperatures ranging from 18°C to 32°C with temperature changes (fluctuations) of up to 5°C per hour.	

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4.2	TUBE STAND TECHNICAL INFORMATION	
4.2.1	C-ARM	
4.2.1.1	Isocentric swivel arm system consisting of the x-ray tube unit compression device and breast support with detector.	
4.2.1.2	Swivel arm shall include motorized isocentre rotation. Pre-programmed/preset rotation angle movement should be possible with the touch of a button. Need to be able to pre-configure angle of gantry rotation.	
4.2.1.3	Table height range to be variable to accommodate all patients. Vertical travel range to be 65 to 150cm.	
4.2.1.4	Height adjustment shall be fully motorized.	
4.2.1.5	Source to Image Distance (SID) shall not be less than 65cm.	
4.2.1.6	C-arm Rotation Range to be +180° to -180°. All angles within these ranges shall be pre-selectable.	
4.2.1.7	Swivel arm must have a digital display, displaying collimation size, status of the system, acquisition mode type, compression type and force, gantry rotation angle, eye-height, etc	
4.2.2	COMPRESSION	
4.2.2.1	The compression shall have motorized and manual compression with pre-selectable compression force. Compression force to comply with Department of Health Regulations.	
4.2.2.2	Compression thickness and compression force applied shall be digitally displayed in kg or N at the base of the Mammography stand. (Kg preferred).	
4.2.2.3	Compression pressure shall be adjustable and range from 3 to 20 kg (30 to 200 N) or better.	
4.2.2.4	Indicate cut-off compression pressure.	
4.2.2.5	Indicate maximum compression thickness.	
4.2.2.6	Digital display of compression force and compression thickness shall be easily accessible. Shall also be displayed on images.	
4.2.2.7	Two (2) pairs of footswitches should be available to access the control of the compression.	
4.2.2.8	Height adjustment should also be possible with the same footswitches that controls the compression	
4.2.2.9	Field lighting shall be available to ensure accurate positioning of the breast.	
4.2.2.10	AEC as well as manual exposure selection shall be possible. Pre-programmable exposure parameters for optimized patient dose shall be available.	
4.2.2.11	Automatic Collimation shall be available for different compression paddles and manual selection must be available.	
4.2.2.12	A Magnification Table Attachment to be included in the offer. Magnification Factor of a minimum of 1.8 is required.	
4.2.2.13	State the paddles included for the magnification table	

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4.2.2.14	Compression paddle, size 18x24cm, to be included.	
4.2.2.15	Compression paddle, size 24x30cm, low edge, to be included.	
4.2.2.16	Compression paddle, size 24x30cm, high edge, to be included.	
4.2.2.17	One flexible compression paddle shall be included for both 18x24cm and 24x30cm (one each).	
4.2.2.18	Detailed compression paddle, to be included.	
4.2.2.19	Axilla compression paddle, to be included.	
4.2.2.20	Spot compression paddle to be included. State size.	
4.2.2.21	Spot compression paddle for size 18x24cm, that indicates a bigger area around the compression, to be included.	
4.2.2.22	Dedicated ergonomic compression paddle shifting for oblique views is required. This paddle shall be offered for use during examination of the small breasted woman with the large detector size. The AEC shall move with the centre of the shifting paddle. Discuss how this paddle functions and its advantages.	
4.2.2.23	Additionally, one replacement paddle insert should be included for both the 18x24cm and the 24x30cm. Each paddle insert shall be easily removable, cleanable and replaceable (one each).	
4.2.2.24	Additionally, one replacement paddle insert should be included for both the 18x24cm and the 24x30cm. Each paddle insert shall be easily removable, cleanable and replaceable (one each).	
4.2.3	<u>GRID</u>	
4.2.3.1	A grid shall be fitted above the detector. The grid should be reciprocating and have a grid ratio of 5:1 and a minimum of 31 lines/cm. The grid shall automatically retract from its position during the stereotactic biopsy purposes and magnification views.	
4.2.3.2	State how scatter radiation reduction is obtained without a grid in place.	
4.2.4	<u>X-RAY GENERATOR AND TUBE:</u>	
4.2.4.1	System shall have a dual/double-focus rotating anode Molybdenum/Tungsten x-ray tube. State anode material	
4.2.4.2	Indicate anode angle relative to detector	
4.2.4.3	It is essential for the inclusion of a dual/double focus anode tube to allow imaging of both thicker and dense breasts as well as large breasts.	
4.2.4.4	Tungsten anode is mandatory for dose reduction in all cases but especially in large breasted patients.	
4.2.4.5	State maximum tube current for large - and small focal spot for the Anode material offered.	

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4.2.4.6	System should include at least three filters to be used in combination with the anodes available to allow maximum flexibility and lowest dose. State filter combinations offered. Focal Spot sizes to be at most 0.1mm and 0.3mm.	
4.2.4.7	Exposure voltage increments of 1 kV between 23 to 40 kV or more shall be possible	
4.2.4.8	mAs ranges should be appropriate for the filter target combination.	
4.2.4.9	State the ranges in both the AEC and mAs modes for the tube material offered.	
4.2.4.10	The mAs value in the mAs mode should be approximately 1 to 630 mAs and 2 to 560 in AEC mode.	
4.2.4.11	Anode speed should be at least 8600 rpm.	
4.2.4.12	Power output of the X-RAY TUBE should not be less than 7 KW.	
4.2.4.13	Power output of the GENERATOR should be at least 5KW	
4.2.4.14	Exposure times, automatic shall be at least from 30ms to 4 seconds for both large - and small focus.	
4.2.4.15	Tube over heating protection to be available.	
4.2.4.16	Anode heat storage capacity shall be 160 kHU or better.	
4.2.4.17	X-ray tube assembly heat storage shall be 1300 kHU or better.	
4.2.4.18	Include ISO Certification of the offered system.	
4.2.5	<u>X-RAY BEAM FILTRATION AND OUTPUT:</u>	
4.2.5.1	4.2.5.1 Inherent tube filtration shall be approximately 1 mm. State filtration.	
4.2.6	<u>X-RAY COLLIMATION:</u>	
4.2.6.1	State Available Collimated x-ray field sizes	
4.2.6.2	Automatic collimator adjustment must be automatic when compression plates are changed.	
4.3	<u>DETECTOR SYSTEM TECHNICAL INFORMATION</u>	
4.3.1	Full Field Digital Detector, 24cm x 30cm shall be available.	
4.3.2	Image Receptor or Detector shall be based on an amorphous Selenium detector.	
4.3.3	Pixel Size shall be 85 µm x 85 µm squared	
4.3.4	State Image Matrix (pixels)	
4.3.5	Minimum patient throughput shall be not less than 15 patients per hour.	

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4.3.6	A typical screening examination should not exceed 2.5 minutes.	
4.3.7	Maximum time between exposures shall be not more than 20 seconds.	
4.3.8	State time required to view preview image. This should not be in excess of 10 seconds.	
4.3.9	State time required to view fully processed image. This should not be in excess of 18 seconds.	
4.3.10	There should be no tube or detector cooling required. Please confirm this statement honestly.	
4.3.11	It should be possible to control all generator parameters from acquisition console. State compliance for the following:	
4.3.11.1	Exposure techniques;	
4.3.11.2	kV, mAs, target/filter combination;	
4.3.11.3	Status of focus size;	
4.3.11.4	Status of compression paddle;	
4.3.11.5	Breast thickness in mm;	
4.3.11.6	Grid position;	
4.3.11.7	Auto Decompression;	
4.3.11.8	AEC segmentation;	
4.3.11.9	Low dose mode;	
4.3.11.10	Ability to predefine user specific projection views at acquisition console.	
4.3.12	Discuss how the design of the offered unit is ergonomically and lends itself shall be considered patient friendly.	
4.3.13	Spatial resolution shall be at least 5.5-line pairs per mm (MTF >0.4 (40%) at Nyquist frequency).	
4.3.14	Easy cleaning of detector shall be possible without the need of removal. The detector shall be sealed against permeation of fluids.	
4.3.15	Output Image data in bits at least 14 bits.	
4.3.16	Indicate detector calibration intervals	

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4.4	<u>ACQUISITION WORKSTATION TECHNICAL INFORMATION</u>	
4.4.1	The workstation shall have state of the art ergonomic features. List features.	
4.4.2	Workstation monitor shall be able to be used in portrait and landscape format.	
4.4.3	The monitor shall be at least a medical grade 3 MP	
4.4.4	Patient detail and demographics shall be clearly displayed on the monitor.	
4.4.5	The display and computer system shall be appropriate for the imaging system.	
4.4.6	Computer shall have at least 32GB RAM Memory. State size of memory offered.	
4.4.7	Hard disk capacity shall be at least 3TB (for Image Storage) and able to store up to 45000 uncompressed mammography studies/images. State capacity.	
4.4.8	Storage Media: Shall be possible to store to flashdrives.	
4.4.9	Writing format to storage media shall be in DICOM. Raw and processed images shall be automatically archived to the PACS	
4.4.10	Full DICOM options shall be available.	
4.4.11	Network protocols shall be compatible with existing network in Radiology Department.	
4.4.12	Raw Image Depth at least to be 14 bits.	
4.4.13	Must have network Interface available, which shall be DICOM compliant (see networking).	
4.4.14	Must be DICOM compatible and connected to RIS/HIS (see networking).	
4.4.15	The following displays should be possible on the Acquisition Workstation:	
4.4.15.1	Reconstructed slices (High-resolution)	
4.4.15.2	Synthetic 2D and 3D	
4.4.15.3	Cine mode	
4.4.16	Workstation shall at least have a Graphical User Interface, X-ray exposure control, configurable mammographic workflow, patient demographics, brightness and contrast control, magnification screen, pixel value readout, QC test tools, system status monitoring, error reporting, unattended archiving and printing. Expand on features.	
4.4.17	A radiation protection shield (cubicle) for the operator shall be included. Pb equivalence of at least 0.5 mm Pb (lead).	

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4.4.18	The system shall have an integrated system operation with pre-selection of patient orientation for automatic image orientation. Must have customized user programs with pre-defined parameter sets.	
4.4.19	The system shall be user friendly, menu and program selections to be done with mouse. Expand on user interfaces.	
4.4.20	<u>SELECTION OF THE MENUS AND PROGRAM GUIDANCE IMAGE DISPLAY:</u>	
4.4.20.1	Freely selectable screen layout shall be possible	
4.4.20.2	Windows settings (contrast and brightness setting) shall be possible	
4.4.20.3	Magnification, stepped and dynamic zoom shall be possible	
4.4.20.4	Image inversion (black/white) shall be possible.	
4.4.21	<u>POST PROCESSING TOOLS:</u>	
4.4.21.1	Large markers for projection view shall be available	
4.4.21.2	Text additions/comments shall be possible	
4.4.21.3	Length/angle measuring shall be available	
4.4.21.4	ROI (region of interest) detection.	
4.5	<u>INTERFACE AND STORAGE</u>	
4.5.1	Full bi-directional Integration is required.	
4.5.2	The unit shall be connected to the existing network in Radiology, PACS.	
4.5.3	The following DICOM functions shall be possible:	
4.5.3.1	Modality Performed Procedure Step (MPPS	
4.5.3.2	Store	
4.5.3.3	Storage Commit	
4.5.3.4	Print	
4.5.3.5	Query/Retrieve	
4.5.3.6	Modality work list (MWL).	
4.5.4	State how often detector calibration is required.	
4.5.5	Pixel depth of acquired images shall be at least 14 bits.	

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4.5.6	Pixel depth of processed images shall be at least 12 bits.	
4.6	<u>ADMINISTRATION</u>	
4.6.1	Patient data retrievable from a HIS/RIS System via DICOM Modality work list shall be available.	
4.6.2	State if Auto routing of images to various destinations is possible	
4.6.3	Archiving of studies shall be available locally and on PACS	
4.6.4	State method of User identifications and levels of users.	
4.6.5	Importing and Exporting of Images shall be available.	
4.7	<u>SYSTEM ERGONOMICS</u>	
4.7.1	High patient throughput should be possible.	
4.7.2	Maximum time between exposures should not be more than 20 seconds.	
4.7.3	Time to review complete image should not be more than 10 seconds.	
4.7.4	Image processing should be customizable per institution and/or user.	
4.7.5	There should be no cooling time necessary for the tube or the detector. No separate cooling unit should be required. State compliance.	
4.7.6	Compression should be done via footswitch or manual control.	
4.7.7	Height adjustment should be done via footswitch and operational keypad.	
4.7.8	Compression shall be able to be released automatically after exposure as well as manually.	
4.7.9	Emergency stops shall be available. State number and location of installation.	
4.7.10	Paddles shall be easy cleanable and easy to detach.	
4.8	<u>DIGITAL STEREOTACTIC BREAST BIOPSY DEVICE:</u>	
4.8.1	Biopsy Window Paddle Size shall be at least 90x98 mm.	
4.8.2	Compression Opening shall be at least 10cm.	
4.8.3	Source to Image Distance shall be at least 60 cm.	
4.8.4	Source to Breast Tray Distance shall be at least 50cm.	
4.8.5	State the magnification factor.	

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4.8.6	Indicate weight of the biopsy unit	
4.9	Specimen reader/scanner to be supplied to image biopsy samples.	
4.9.1	Indicate how the specimen is being imaged.	
4.9.2	Preference will be given to equipment configuration where the patient will remain in position/stationary while the specimen is being imaged.	
4.10	<u>STEREOTACTIC GUIDANCE SYSTEM:</u>	
4.10.1	Automatic Needle Guidance shall be included with Cartesian coordinates.	
4.10.2	Accuracy shall be at least 1mm in X, Y, and Z axis.	
4.10.3	Needle lengths of up to 190 cm shall be accommodated.	
4.10.4	Needle positioning shall be motorized (with possible manual manipulation).	
4.10.5	Range of Movement shall be at least 5cm in X-axis, 5cm in Y-axis. State Z-axis movement.	
4.10.6	Stereotactic Angle shall be at least +15° to -15°.	
4.10.7	Tomosynthesis Biopsy should be possible.	
4.10.8	State C-arm Rotation during biopsy.	
4.11	<u>BIOPSY SYSTEM FEATURES:</u>	
4.11.1	Input Power shall be single phase 220V-240V, 50Hz if not connected to the main unit.	
4.11.2	The weight of the biopsy unit shall not exceed 6kg, making it light enough for the staff to move and attach/manipulate without straining.	
4.11.3	Biopsy volumes shall be at least:	
4.11.3.1	Vertical: 50x40x100 mm.	
4.11.3.2	Lateral: 50x40x60mm.	
4.11.4	State all other features of the biopsy device, including display methods.	
4.11.5	Biopsy unit shall be an upright solution, for vertical and lateral biopsies, and shall be included as part of the Mammography stand.	
4.11.6	Biopsy facility shall use the system detector to ensure the imaging excellence and resolution provided.	
4.12	<u>CONTRAST-ENHANCED MOMMOGRAPHY</u>	
4.12.1	Contrast-enhanced mammography (CEM) examinations must be able to be performed with the system offered	

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4.12.2	Indicate if image quality of low-energy images is equal to Full Field Digital Mammography (FFDM).	
4.12.3	Indicate how high energy images are acquired and the KV range used.	
4.12.4	Contrast agent and details, together with injection protocol to be stored in DICOM header and must be displayed to together with the image.	
4.13	<u>TOMOSYNTHESIS</u>	
4.13.1	The unit shall be capable of 3D Tomosynthesis. Tomo range should be stated. The Tomo range should not be less than 40° (+20° and - 20°). State Tomo angle range and advantages, if any. State number of projections acquired per scan.	
4.13.2	Indicate scan time	
4.13.3	Used detector area should not be less than 24x30cm	
4.13.4	Indicate scan angle and number of projections	
4.13.5	Indicate compression – and reconstruction time	
4.13.6	Indicate what standard projections are possible	
4.13.7	Both exposure modes, AEC and manual to be possible.	
4.13.8	Both conventional and tomosynthesis scans should be possible during one examination or scan	
4.13.9	Indicate reconstructed slice thickness	
4.13.10	All required compression plates with rounded edges for 2D and tomosynthesis image acquisition need to be included in the offer. State all plates to be supplied and why.	
4.13.11	All compression plates should be able to be easily attachable.	
4.13.12	Indicate if spot compressions scans is possible with tomosynthesis	
4.14	<u>QUALITY ASSURANCE SOFTWARE AND PHANTOMS</u>	
4.14.1	All calibration and Quality Assurance test phantoms, including software, that is required to perform the mandatory Quality Checks, as per SAPHRA regulations and licence conditioning, to be included in the offer.	
4.14.2	List phantoms supplied and function.	
4.15	<u>CYBER SECURITY</u>	
4.15.1	Indicate if cyber security measures are in place.	
4.15.2	Supply details regarding cyber security measures in place.	

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4.16	<u>OPERATING ENVIRONMENT:</u>	
4.16.1	Temperature Range shall be between 18° C to 35° C.	
4.16.2	Maximum rate of temperature change within < 6°C/hr.	
4.16.3	Relative Humidity Range within 30% to 70% non-condensing.	
4.17	<u>NETWORKING:</u>	
4.17.1	System shall be networked to the imaging network. Cost of this shall be included in the total price.	
4.17.2	The successful vendor shall be required to setup the unit in the radiology department to ensure full integration into the PACS/RIS system at Tygerberg Hospital.	
4.17.3	The system shall be fully DICOM ready and capable of being interfaced with the RIS/PACS and comply with the conformance statement as set out in Annexure C. State compliance.	
4.17.4	An Annexure C document shall be completed in full for every offer and submitted with the tender documents.	
4.17.5	An IHE conformance statement (for the unit on offer) shall be submitted with every offer.	
4.17.6	All networking shall comply to PGWC IT protocols. Damages to existing network infrastructure shall be for the Bidder's account	
4.18	<u>SEPARATE DIAGNOSTIC WORKSTATION - RADIOLOGIST REVIEWING STATION:</u>	
4.18.1	Computer Memory shall have 16GB minimum.	
4.18.2	HARD DRIVES:	
4.18.2.1	1 x 320GB SAS	
4.18.2.2	1 x 1000GB SATA II	
4.18.2.3	Storage Media - DVD	
4.18.3	Writing format to storage media shall be in Tiff, bmp and DICOM	
4.18.4	Printer connectivity shall be included	
4.18.5	Displayed Image Depth in bits at least 10 bits	
4.18.6	Graphic Controller cards shall be 5M Pixels or more	
4.18.7	The radiologist workstation shall consist of at least a navigation monitor and two 5 MP medical grade diagnostic monitors (total of 3 monitors);	
4.18.8	DICOM functionality shall include Verification, Store, Query, Retrieve and Print.	

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4.19	<u>RADIOLOGIST REVIEW STATION FEATURES AND ERGONOMICS:</u>	
4.19.1	Dedicated multifunction keypad shall be included.	
4.19.2	Multiple User Configurable Hanging Protocols shall be included.	
4.19.3	Rule-based automatic deletion of cases shall be included.	
4.19.4	Copy to film including markings, annotations and graphic overlays shall be a standard function of the Radiology reporting station.	
4.19.5	Multi-workstation Connectivity shall be included.	
4.19.6	Display QC and Calibration Software shall be included.	
4.19.7	Customisable hanging protocols, single click navigation between images as well as easy toggle between 2D and tomosynthesis images shall be possible.	
4.19.8	Support for easy navigation through tomosynthesis images shall be included.	
4.19.9	Capability for automatic retrieval of prior studies from PACS and layout to facilitate easy comparison between current and prior studies will be included.	
4.19.10	Software will be configurable with the 5 Megapixel Barco monitors already in the department.	
4.20	<u>INSTALLATION:</u>	
4.20.1	The Bid price shall include delivery and commissioning of equipment and all building alterations (See site meeting notes and specs for scope of work, that will be supplied at compulsory site meeting);	
4.20.2	<u>All prospective Bidders shall be requested to attend a compulsory site meeting on 04 July 2025; at C-Lower Ground at the Clinical Engineering Department, Tygerberg Academic Hospital at 11:00am. Failure to attend this site meeting shall lead to the disqualification of the Bidders offer;</u>	
4.20.3	The proposed layout shall be discussed with the Head of the Radiology Department;	
4.20.4	The Bid price shall include the building alterations that may be necessary for the successful functioning of the equipment;	
4.20.5	The layout and alterations shall be shown on a plan that shall be supplied to prospective bidders at the site meeting	
4.20.6	Bidders shall satisfy themselves as to the suitability of the power supply and isolator. Any upgrading of the power supply and/or isolators shall be included in the Bid price;	
4.20.7	One UPS, supporting the workstation and the Mammography unit, shall be provided/included and mounted against the wall.	
4.20.8	Bidders shall satisfy themselves to the environmental conditions. Any additional features that are required, such as air-conditioning, shall be detailed and included in the alteration costs;	
4.20.9	The Bid calls for a Digital Mammography unit to be installed, networked and fully functional for use by the Department. Bidders shall include all additional costs not covered in the above to achieve this goal;	

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4.20.10	The successful Bidder shall make good any damages incurred during alterations and installations;	
4.20.11	The successful Bidder shall first discuss all proposed changes with the relevant Departments and the Department of Works. The successful Bidder may only commence with the work once approval from the Department of Works is issued.	
4.20.12	Site meeting notes shall be supplied on the day of the site meeting that shall contain all work to be done in room, like painting, flooring, cupboards, making good cabling, etc. Bidder shall include all of this work in the quote supplied. The quote shall be itemised for all jobs that needs to be completed as part of the installation.	
4.20.13	The site meeting notes shall form part of the Bid document. If there are any amendments to the site meeting notes, after site meeting, the amended notes shall be sent to all Bidders that attended the site meeting.	
4.20.14	Bidder to supply 4 x chairs (As per picture on site meeting notes) – 2x Draughtman chairs (with back support and without armrests) and 2x bar stools with wheels (see picture)	
4.20.15	Bidder to supply lead aprons:	
4.20.15.1	1X set of 3 waist aprons (small, medium, large) -navy color	
4.20.15.2	1X medium double-sided apron (standard length) -navy color	
4.20.15.3	1X thyroid shield -navy color	
4.21	<u>EXAMINATION LIGHT CEILING MOUNTED:</u>	
4.21.1	Two ceiling mounted examination lights with 2 re-usable handles each, shall be supplied and included in bid price;	
4.21.2	The unit shall generate cool light, free of obstructing shadows;	
4.21.3	The unit shall have a light output of at least 110 000 lux at 1-meter distance with at working distance of between 700 and 1400 mm and a dimming range of at least 50-100%;	
4.21.4	The colour temperature shall be approximately 4300K;	
4.21.5	The adjustable illumination field shall be focusable at least between 140-250 mm without mechanical movements or motors.	
4.21.6	The life span of the LED's shall be at least 40 000 hours;	
4.21.7	The lamp head shall be sealed to protect it against ingress of dirt and fluids and shall be easily disinfected.	
4.21.8	The unit shall consist of a 2-arm system with one spring arm with a range of at least 1200 mm up and down movement and an arm for the light head. The offered flexible articulated swivel arm shall allow the light system to be adjustable and manoeuvrable in three-dimensional space. All movements shall allow for easy manoeuvrability, be balanced, have no backlash and shall have friction brakes /clutches for adjustment;	
4.21.9	The offered unit shall operate from 220V and a 220 V plug socket shall be installed against the ceiling for light to be plugged in with a SABS approved 3-prong plug.	

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4.21.10	The unit and installation shall comply with all necessary safety standards.	
4.21.11	Clinical Engineering shall take the successful Bidder to a site in Tygerberg Hospital to show how the installation shall be done.	
4.21.12	Tygerberg Hospital currently has the Dr Mach LED 150 light installed. If another brand and model is offered all relevant information of the light shall be submitted with the offer to be evaluated.	
4.21.13	The one light shall be installed in the Mammo room and the second light shall be installed in the Ultrasound Room.	
5.	UPGRADE POLICY	
5.1	All future upgrades (hardware and software) involving patient safety shall be offered and supplied at no additional cost;	
5.2	All future upgrades removing software bugs from existing software shall be supplied at no cost;	
5.3	Any upgrade before or after installation of the equipment involving additional cost shall be brought to the attention of the Provincial Government of the Western Cape.	
6.	REGULATIONS	
6.1	All equipment, the installation and any alteration/additions shall comply with:	
6.1.1	The Occupational Health and Safety Act (1993);	
6.1.2	The wiring code S.A.B.C. 0142;	
6.1.3	Hazardous Substance Act (1973).	
6.1.4	The radiation safety regulations as lay down by the Directorate Radiation Control of the Department of Health.	
6.1.5	The onus shall be on the successful Bidder to ensure that a licence is issued in terms of the Hazardous Substance Act (1973) by Department of Health on the installed system and site.	
7.	GENERAL MAINTENANCE INFORMATION	
7.1	State the service intervals per year as prescribed by the manufacturer. Supporting documents shall be provided and clearly marked GM1 (indicate page no.)	
7.2	State the duration of each service mentioned above (hours)	
7.3	<u>Supply the names of the technicians in direct employ and factory trained on the unit offered and based in the Western Cape.</u> Supporting documents shall be provided and clearly marked (indicate page/paragraph no.);	
7.4	The Bidder shall state the response time (in hours) for a service technician to be onsite after a fault is reported;	
7.5	State the turnaround time for spares in the case of a breakdown and the spares have to be ordered from abroad;	
7.6	All spares replaced shall be new and carry a manufacturer warranty. State the warranty period of replaced spares;	

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7.7	In case of a service contract entered into between the successful Bidder and the DOH all spares replaced during the contract period shall be new and shall carry a warranty as stated above	
7.8	The Bidder shall supply all software (including software-keys and/or passwords) to allow for maintenance, calibrations, repairs and services at no additional costs	
7.9	State the maximum ambient room temperature allowed for the system to function normally	
8.	MAINTAINABILITY	
8.1	The Bidder shall indicate which consumable and non-consumable items are required for the normal operation and standard maintenance of the offered equipment	
8.2	The Bidder shall indicate the cost of each of the above items. This does not necessarily mean that these items would be purchased from the successful Bidder	
8.3	The Bidder shall indicate all items that are proprietary items that only the equipment supplier can supply	
8.4	The Bidder shall have an established technical support base in the Western Cape Province. The Bidder shall provide the physical address of the technical facility/workshop	
8.5	The Bidder shall have an adequate quantity of factory-trained technicians, trained on the offered equipment, in their direct employ, based in the Western Cape Province. Proof of training shall be submitted	
8.6	The successful Bidder shall supply the original fully detailed technical/workshop maintenance manuals (not photocopies or copied CD's) at no additional cost	
8.7	The bidder shall include a firm commitment (in writing) from the principal manufacturer that the latter would supply spares, components, upgrades and support for technical and clinical staff of Tygerberg Academic Complex for the expected life of their offered system and software, should their local agent/supplier default.	
9.	MAINTENANCE CONTRACT	
9.1	State percentage guaranteed up time of machine. Should be at least 98%.	
9.2	A fully inclusive service contract for a five (5) year period after the guarantee expiry date shall be provided (include Quality Assurance tests as prescribed by the Department of Health, Directorate: Radiation Control, labour, travelling, sundries, spares, and call outs).	
9.3	Provide pricing per year i.e. Year 1 to Year 5 (NB: Year 1 is the year following the guarantee period). All prices shall include VAT.	
10.	COST OF OWNERSHIP (TO BE INCLUDED IN BID OFFER)	
10.1	A minimum guarantee period of 24 months is applicable. All parts, maintenance, corrective maintenance, QA, labour and travel costs shall be included during the warranty period;	
10.2	Bidder to indicate the guarantee period offered.	
10.3	The Bidder shall provide a detailed estimated breakdown of the cost of ownership of their offered system for the estimated life time of the offered unit ($\pm$ 10 years – indicate cost per year);	
10.4	State the percentage annual increase planned for in the estimate above;	

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10.5	Bidders shall state their current technical labour cost per hour on the equipment offered (R/h);	
10.6	State the current travel costs involved on a repair call-out or routine service (R/km and/or R/travel time per hour);	
10.7	State the current cost of each service as prescribed by the manufacturer (including spares, labour, travel and all other costs normally charged for in such service).	
11.	GENERAL SAFETY	
11.1	The unit shall comply with all necessary safety standards and CE or FDA certification shall be supplied.	
12.	TRAINING	
12.1	The Bidder shall undertake to provide a comprehensive training schedule for both user Department and Clinical Engineering staff of the Hospital;	
12.2	The successful Bidder shall provide initial training for users at no extra cost. Application training shall be conducted to ensure the correct application and use of the unit. The training of personnel must commence immediately after the technical training	
12.3	The successful Bidder shall provide initial training for users at no extra cost. Application training shall be conducted to ensure the correct application and use of the unit. The training of personnel must commence immediately after the technical training	
12.4	Training dates shall be agreed to and a signed attendance list after the training shall be supplied to the Clinical Engineering Department before any payment can take place;	
13.	DOCUMENTATION:	
13.1	All documents shall be in English and Original documents – no copies shall be accepted and at least one document shall be supplied in a paper format, which is properly bound;	
13.2	One complete set of comprehensive workshop/service manuals, including wiring schematics and service software/passwords shall be supplied;	
13.3	Two complete sets of user manuals shall be supplied;	
13.4	See Section "B". Failure to supply the Clinical Engineering Department with comprehensive and detailed service manuals could lead to the disqualification of the Bidder's offer;	
13.5	A licence issued in terms of the Hazardous Substances Act, (Act No. 15 of 1973) shall be submitted with the Bid. Failure to submit such a licence may result in a Bid not being considered.	
14.	GUARANTEE CONDITIONS:	
14.1	The Bidder shall support a two-year or longer guarantee period on all supplied items/goods. Bidder to clearly state guarantee period offered.	
14.2	The time taken to attend to a malfunctioning unit within the guarantee period shall extend the guarantee period by that time	
14.3	A loan unit shall be supplied for immediately movable items whilst a unit is malfunctioning during the guarantee period for longer than two days. Failing this condition will result in the user renting a similar unit and the Bidder shall carry the cost.	
14.4	Any repetition (twice or more) of the same fault that first occurred during the guarantee period shall be considered as a repair under	

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	guarantee if it occurs within the first year after the expiration of the guarantee period. This is not applicable if user negligence can be proven.	
14.5	The same guarantee conditions shall apply to replacement units.	
14.6	The guarantee period shall include all cost (spares, labour, travelling, and sundries), prescribed maintenance services and any QA testing that are required by Department Health's Radiation Control Board that may be required under the guarantee period.	
15.	<u>COMPULSORY SITE MEETING/BRIEFING SESSION</u>	
15.1	A compulsory site meeting/briefing session will be held Venue: Tygerberg Hospital, C-Lower Ground at the Clinical Engineering Department Date: 04 July 2025 Time: 11:00am Compulsory Site Meeting Prospective Service Providers (PSP) must ensure to meet at C-Lower Ground at the Clinical Engineering Department before 11:00am and are reminded that no access will be permitted later than 11:00am.	
15.2	Any bidder who reports to the site meeting after the mandatory time (11:00am) will be disqualified	

EVALUATION OF BIDS

- This bid will be evaluated in the following stages;
 - Stage 1: Compliance with the specifications and bid requirements.
 - Stage 2: Preferential procurement evaluation/Price
- **Stage 1: Compliance with the specifications and bid requirements:**
 - This evaluation is based on compliance with the SCM requirements which include, among others registration on the Central Supplier Database, submission of bids on time, and submission of all required documents completed.
 - Bids that fail to meet the requirements will be disqualified from further evaluation at this stage.
- **Stage 2: Preferential procurement evaluation/ Price**
 - Qualifying bids will further be evaluated according to the preferential procurement system based on the 80:20-point system.

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**PRICING SCHEDULE – FIRM PRICES
(PURCHASES)**

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

Name of bidder:	Bid Number: TBH202/2025
Closing Time: 11H00	Closing date: 18 JULY 2025

OFFER TO BE VALID FOR **90 DAYS** FROM THE CLOSING DATE OF BID.

Guidance in Completing the Pricing Schedule

- Please complete the unit price cost of the item as well as the Annual cost (Qty X Unit cost). The cost should be VAT inclusive. The unit cost and the total shall be used for preferential procurement evaluation.
- The Department reserves the right to extend the contract at its discretion and should the Department elect to extend the contract, the price offered shall be binding.

ITEM NO.	ESTIMATED QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY ** (INCLUDING VAT)
1.	One (1)	PRICE BREAKDOWN FOR A FULL DIGITAL MAMMOGRAPHY (FFDM) INCLUDING A DIGITAL AND BREAST TOMOSYNTHESIS (TBT) SYSTEM, INCLUDING FLAT DETECTOR FOR SCREENING AND DIAGNOSTIC IMAGING, ACQUISITION WORKSTATION, STEREOTACTIC BIOPSY AND GUIDANCE SYSTEM, SPECIMEN SCANNER, CONTRAST ENHANCED MAMMOGRAPHY CAPABILITY	<u>UNIT COST</u> R..... ALL APPLICABLE TAXES INCLUDED*
			<u>ALTERATIONS COST</u> R..... ALL APPLICABLE TAXES INCLUDED**
			<u>GRAND TOTAL – TOTAL PRICE AS OFFERED FOR A FULLY FUNCTIONAL SYSTEM AS PER SPECIFICATION FOR TYGERBERG HOSPITAL</u> R.....

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EXTENDED COMPREHENSIVE MAINTENANCE AGREEMENT

EXTENDED COMPREHENSIVE MAINTENANCE AGREEMENT (FULLY INCLUSIVE SERVICE, REPAIR, AND MAINTENANCE) FOR THREE YEARS AFTER THE GUARANTEE PERIOD WITH AN OPTION TO EXTEND FOR A FURTHER TWO YEARS BASED ON THE SOLE DISCRETION OF THE INSTITUTION.	Year 1	Year 2	Year 3	Year 4 (Optional)	Year 5 (Optional)
	R..... Price per month R..... Price per year **	R..... Price per month R..... Price per year **	R..... Price per month R..... Price per year **	R..... Price per month R..... Price per year **	R..... Price per month R..... Price per year **
GRAND TOTAL ALL APPLICABLE TAXES INCLUDED**	R..... (YEAR 1, 2 & 3) ALL APPLICABLE TAXES INCLUDED			R..... (YEAR 4 & 5) ALL APPLICABLE TAXES INCLUDED	

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Required by:

TYGERBERG HOSPITAL – RADIOLOGY DEPARTMENT

- At

TYGERBERG HOSPITAL
FRANCIE VAN ZIJL DRIVE
PAROW
CAPE TOWN
7500

- Brand and model

- Guarantee period

- Country of origin

- Does the offer comply with the specification(s)? *YES / NO

- If not to specification, indicate deviation(s)

- Period required for delivery
*Delivery: Firm / not firm

- Delivery basis

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

***" all applicable taxes" includes value-added tax, import tax, pay as you earn, income tax, unemployment insurance fund contributions, and skills development levies.

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ANNEXURE A

IMAGING EQUIPMENT CONFORMANCE FOR PACS / RIS INTEGRATION

Preamble:

The Provincial Health Top Management at its meeting on 5 September 2006 decided in principle to change to a digital image management system, commonly referred to as PACS (Picture Archiving and Communication System), with the associated conversion to digital image generation.	Noted
Following this decision the DMIMTC (D igital M edical I maging & M anagement T echnical C ommittee) was established to facilitate this process.	Noted
One of the first tasks given to this committee was to ensure that all equipment purchased thereafter would be able to integrate with the decision made by the Provincial Health Top Management. This addendum, to all imaging equipment tender documents, will serve as part of the compulsory specifications for all imaging equipment. The purpose of this will be to ensure that all imaging equipment purchased will comply with the provincial digitization vision.	Noted
During this period of transition, it is crucial that the equipment works within the non-digital environment, the partly digital environment and finally the fully digital environment.	Noted
The following statements refer to the vendor's responses:	
The vendor shall indicate that they have taken note of all information provided, by unambiguously indicating "Noted" within the box provided.	Comply Do Not Comply
Detailed reply:	
The vendor shall answer all specification requirements, by unambiguously indicating "Comply" or "Do Not Comply" within the boxes provided.	Comply Do Not Comply
Detailed reply:	
Should the vendor want to provide a detailed reply, the reply shall be provided within the space "Detailed reply:" provided.	Comply Do Not Comply
Detailed reply:	
When required to "State / Describe" details, the reply shall be provided within the space "Detailed reply:" provided.	Comply Do Not Comply
Detailed reply:	

DICOM (Digital Imaging and Communications in Medicine)

The vendor shall support the DICOM 3 format	Comply	Do Not Comply
Detailed reply:		

Contractor to initial.....

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During this period of transition, it is crucial that the equipment works within the non-digital environment, the partly digital environment and finally the fully digital environment.	State / Describe
--	------------------

Detailed reply:

The vendor shall support the following DICOM services

Detailed reply:

DICOM Storage	Comply	Do Not Comply
---------------	--------	---------------

Detailed reply:

DICOM Storage Commitment	Comply	Do Not Comply
--------------------------	--------	---------------

Detailed reply:

DICOM Modality Worklist	Comply	Do Not Comply
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Detailed reply:

DICOM Modality Performed Procedure Step	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

DICOM Query / Retrieve	Comply	Do Not Comply
------------------------	--------	---------------

Detailed reply:

DICOM Print	Comply	Do Not Comply
-------------	--------	---------------

Detailed reply:

The vendor shall allow DICOM mapping.	Comply	Do Not Comply
---------------------------------------	--------	---------------

Detailed reply:

The vendor shall at least populate the following DICOM tags:
--

Study Date (0008,0020)	Comply	Do Not Comply
------------------------	--------	---------------

Detailed reply:

Modality (0008,0060)	Comply	Do Not Comply
----------------------	--------	---------------

Detailed reply:

Institution Name (0008,0080)	Comply	Do Not Comply
------------------------------	--------	---------------

Detailed reply:

Referring Physician (0008,0090)	Comply	Do Not Comply
---------------------------------	--------	---------------

Detailed reply:

Station Name (0008,1010)	Comply	Do Not Comply
--------------------------	--------	---------------

Detailed reply:

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Study Description (0008, 1030)	Comply	Do Not Comply
<i>Detailed reply:</i>		
Operators' Name (0008,1070)	Comply	Do Not Comply
<i>Detailed reply:</i>		
Patient Name (0010,0010)	Comply	Do Not Comply
<i>Detailed reply:</i>		
Patient ID (0010,0020)	Comply	Do Not Comply
<i>Detailed reply:</i>		
Patient Date of Birth (0010,0030)	Comply	Do Not Comply
<i>Detailed reply:</i>		
Patient Sex (0010,0040)	Comply	Do Not Comply
<i>Detailed reply:</i>		

IHE (Integrating Healthcare Enterprises)

The bidder shall support the IHE revision 8 standard	Comply	Do Not Comply
<i>Detailed reply:</i>		
The bidder shall provide the IHE integration statement for the modality.	Comply	Do Not Comply
<i>Detailed reply:</i>		
The bidder shall comply with the following actors and options within the following IHE integration profiles.		
Should the vendor not comply with the actor or option within the specified integration profile; the vendor shall have to describe how their product will achieve the same level of workflow functionality in the appropriate "Detailed reply" space provided.	Comply	Do Not Comply
<i>Detailed reply:</i>		
Scheduled Workflow (SWF) profile		
Acquisition modality actor within the Scheduled Workflow (SWF) profile	Comply	Do Not Comply
<i>Detailed reply:</i>		
Evidence creator within the Scheduled Workflow (SWF) profile.	Comply	Do Not Comply
<i>Detailed reply:</i>		
Image display within the Scheduled Workflow (SWF) profile.	Comply	Do Not Comply
<i>Detailed reply:</i>		

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Assisted Protocol Setting Option within the Scheduled Workflow (SWF) profile.	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

Exception Management Option within the Scheduled Workflow (SWF) profile	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

Consistent Presentation of Images (CPI) profile		
Acquisition modality within the Consistent Presentation of Images (CPI) profile.	Comply	Do Not Comply

Detailed reply:

Print composer within the Consistent Presentation of Images (CPI) profile	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

Image display within the Consistent Presentation of Images (CPI) profile	Comply	Do Not Comply
--	--------	---------------

Detailed reply:

Evidence creator within the Consistent Presentation of Images (CPI) profile	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

Presentation of Grouped Procedures (PGP) profile		
Acquisition modality within the Consistent Presentation of Images (CPI) profile.	Comply	Do Not Comply

Detailed reply:

Evidence Documents (ED) profile		
Acquisition modality within the Evidence Documents (ED) profile	Comply	Do Not Comply

Detailed reply:

Evidence creator within the Evidence Documents (ED) profile	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

Image display within the Evidence Documents (ED) profile	Comply	Do Not Comply
--	--------	---------------

Detailed reply:

Patient Information Reconciliation (PIR) profile		
Acquisition modality within the Patient Information Reconciliation (PIR) profile	Comply	Do Not Comply

Detailed reply:

Key Image Note (KIN) profile		
Acquisition modality within the Key Image Note (KIN) profile	Comply	Do Not Comply

Detailed reply:

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Evidence creator within the Key Image Note (KIN) profile	Comply	Do Not Comply
--	--------	---------------

Detailed reply:

Image display within the Key Image Note (KIN) profile	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

Portable Data for Imaging (PDI) profile

Portable Media creator within the Portable Data for Imaging (PDI) profile	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

Print composer within the Portable Data for Imaging (PDI) profile	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

Access to Radiology Information (ARI) profile

Image display within the Access to Radiology Information (ARI) profile	Comply	Do Not Comply
--	--------	---------------

Detailed reply:

Charge Posting (CHG) profile

Acquisition modality within the Charge Posting (CHG) profile	Comply	Do Not Comply
--	--------	---------------

Detailed reply:

Evidence creator within the Charge Posting (CHG) profile	Comply	Do Not Comply
--	--------	---------------

Detailed reply:

Connection to Network

The imaging modality shall connect to a computer network	Comply	Do Not Comply
--	--------	---------------

Detailed reply:

The modality network card shall be at least 1Gbit per second	Comply	Do Not Comply
--	--------	---------------

Detailed reply:

The modality network card shall be backwards compatible to 100Mbit per second	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

The bidder shall configure the network connectivity during installation	Comply	Do Not Comply
---	--------	---------------

Detailed reply:

The DoH shall provide the bidder with the relevant IP addresses, computer names, AE titles and AE ports for connectivity	Comply	Do Not Comply
--	--------	---------------

Detailed reply:

The bidder shall train the DoH to configure future network connections to allow for future changes to the network.	Comply	Do Not Comply
--	--------	---------------

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DICOM Conformance Statement

IntelliSpace PACS 4.4



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1. DICOM Conformance Statement Overview

The IntelliSpace Picture Archiving and Communication System (PACS) product is a medical image and information distribution system designed for integration into a medical institution's existing healthcare network. The product utilizes the medical industry standard DICOM 3.0 protocol to exchange information with other DICOM compliant devices on the network and Removable Media. The primary use of the DICOM protocol within the IntelliSpace product is for local and remote storage of images, remote Display/Render and printing of images, remote query of image storage related information and local query of modality workload information and Workflow Management for Modality Performed Procedures, Modality Worklist and Storage Commitment.

Table 1: Network Services

SOP Class		User of Service (SCU)	Provider of Service (SCP)	Display
Name	UID			
Other				
Verification SOP Class	1.2.840.10008.1.1	Yes	Yes	N/A
Print Management				
Basic Grayscale Print Management Meta SOP Class	1.2.840.10008.5.1.1.9	Yes	No	N/A
>Basic Film Box SOP Class	1.2.840.10008.5.1.1.2	Yes	No	N/A
>Basic Film Session SOP Class	1.2.840.10008.5.1.1.1	Yes	No	N/A
>Basic Grayscale Image Box SOP Class	1.2.840.10008.5.1.1.4	Yes	No	N/A
>Printer SOP Class	1.2.840.10008.5.1.1.16	Yes	No	N/A
Stored Print Storage	1.2.840.10008.5.1.1.27	Yes	No	N/A
Query/Retrieve				
Patient Root QR Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.1.2.1.1	Yes	Yes	N/A
Patient Root QR Information Model - C-MOVE SOP Class	1.2.840.10008.5.1.4.1.2.1.2	Yes	Yes	N/A
Patient/Study Only QR Info. Model - C-FIND SOP Class (Retired)	1.2.840.10008.5.1.4.1.2.3.1	Yes	Yes	N/A
Patient/Study Only QR Info. Model - C-MOVE SOP Class (Retired)	1.2.840.10008.5.1.4.1.2.3.2	Yes	Yes	N/A
Study Root QR Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.1.2.2.1	Yes	Yes	N/A
Study Root QR Information Model - C-MOVE SOP Class	1.2.840.10008.5.1.4.1.2.2.2	Yes	Yes	N/A
Transfer				
12-Lead ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.1	Yes	Yes	No
Ambulatory ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.3	Yes	Yes	No
Basic Text SR SOP Class	1.2.840.10008.5.1.4.1.1.88.11	Yes	Yes	No
Basic Voice Audio Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.4.1	Yes	Yes	No
Breast Tomosynthesis Image Storage	1.2.840.10008.5.1.4.1.1.13.1.3	Yes	Yes	No
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	Yes	Yes	No
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	Yes	Yes	No
Color Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.2	Yes	Yes	No
Comprehensive SR SOP Class	1.2.840.10008.5.1.4.1.1.88.33	Yes	Yes	No
Computed Radiography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.1	Yes	Yes	Yes
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	Yes	Yes	Yes
Detail SR Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.88.3	Yes	Yes	No
Digital Intra-oral X-Ray Image Storage - Pres. SOP	1.2.840.10008.5.1.4.1.1.1.3	Yes	Yes	Yes
Digital Intra-oral X-Ray Image Storage - Proc. SOP	1.2.840.10008.5.1.4.1.1.1.3.1	Yes	Yes	No
Digital Mammography X-Ray Image Storage - Pres. SOP	1.2.840.10008.5.1.4.1.1.1.2	Yes	Yes	Yes
Digital Mammography X-Ray Image Storage - Proc. SOP	1.2.840.10008.5.1.4.1.1.1.2.1	Yes	Yes	No
Digital X-Ray Image Storage - For Pres. SOP	1.2.840.10008.5.1.4.1.1.1.1	Yes	Yes	Yes
Digital X-Ray Image Storage - For Proc. SOP	1.2.840.10008.5.1.4.1.1.1.1.1	Yes	Yes	No
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	Yes	Yes	No

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SOP Class		User of Service (SCU)	Provider of Service (SCP)	Display
Name	UID			
Enhanced SR SOP Class	1.2.840.10008.5.1.4.1.1.88.22	Yes	Yes	No
GE Nuclear Medicine private SOP Class	1.2.840.113619.4.27	Yes	Yes	No
General ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.2	Yes	Yes	No
Grayscale Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.1	Yes	Yes	Yes
Hemodynamic Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.2.1	Yes	Yes	No
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	Yes	Yes	No
Mammography CAD SR SOP Class	1.2.840.10008.5.1.4.1.1.88.50	Yes	Yes	Yes
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4	Yes	Yes	Yes
Multi-frame Grayscale Byte SC Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.2	Yes	Yes	Yes
Multi-frame Grayscale Word SC Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.3	Yes	Yes	Yes
Multi-frame Single Bit Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.1	Yes	Yes	Yes
Multi-frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	Yes	Yes	Yes
Nuclear Medicine Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.5	Yes	Yes	Yes
Nuclear Medicine Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.20	Yes	Yes	Yes
Philips Private EasyVision 3D Volume Object Storage	1.3.46.670589.5.0.2	Yes	Yes	No
Philips Private EasyVision MR Cardio Analysis Storage	1.3.46.670589.5.0.11	Yes	Yes	No
Philips Private EasyVision MR Cardio Storage	1.3.46.670589.5.0.8	Yes	Yes	No
Philips Private EasyVision Surface Storage	1.3.46.670589.5.0.3	Yes	Yes	No
Philips Private EasyVision Volume Storage	1.3.46.670589.5.0.1	Yes	Yes	No
Philips Private iE33 3D NEO Presentation State Subpage Storage	1.3.46.670589.2.5.1.1	Yes	Yes	No
Philips Private MR Cardio Profile Image Storage	1.3.46.670589.5.0.7	Yes	Yes	No
Philips Private MR Series Data Storage	1.3.46.670589.11.0.0.12.2	Yes	Yes	No
Philips Private MR Spectrum Storage	1.3.46.670589.11.0.0.12.1	Yes	Yes	No
Philips Private Reconstructed X-ray Storage	1.3.46.670589.2.4.1.1	Yes	Yes	No
Philips Private ViewForum 3D Volume New Storage	1.3.46.670589.5.0.1.1	Yes	Yes	No
Philips Private ViewForum 3D Volume Object New Storage	1.3.46.670589.5.0.2.1	Yes	Yes	No
Philips Private ViewForum CT Synthetic Image Storage	1.3.46.670589.5.0.9	Yes	Yes	No
Philips Private ViewForum CX Synthetic Image Storage	1.3.46.670589.5.0.12	Yes	Yes	No
Philips Private ViewForum MR Cardio Analysis New Storage	1.3.46.670589.5.0.11.1	Yes	Yes	No
Philips Private ViewForum MR Cardio New Storage	1.3.46.670589.5.0.8.1	Yes	Yes	No
Philips Private ViewForum MR Synthetic Image Storage	1.3.46.670589.5.0.10	Yes	Yes	No
Philips Private ViewForum Perfusion Analysis Storage	1.3.46.670589.5.0.14	Yes	Yes	No
Philips Private ViewForum Perfusion Storage	1.3.46.670589.5.0.13	Yes	Yes	No
Philips Private ViewForum Surface New Storage	1.3.46.670589.5.0.3.1	Yes	Yes	No
Philips Private X-Ray Image Storage	1.3.46.670589.2.3.1.1	Yes	Yes	Yes
Positron Emission Tomography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.128	Yes	Yes	Yes
Raw Data Storage SOP Class	1.2.840.10008.5.1.4.1.1.66	Yes	Yes	No
RT Beams Treatment Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.4	Yes	Yes	No
RT Brachy Treatment Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.6	Yes	Yes	No
RT Dose Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.2	Yes	Yes	Yes
RT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.1	Yes	Yes	Yes
RT Plan Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.5	Yes	Yes	No
RT Structure Set Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.3	Yes	Yes	No
RT Treatment Summary Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.7	Yes	Yes	No
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	Yes	Yes	Yes
Standalone Curve Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.9	Yes	Yes	No
Standalone Modality LUT Storage (Retired)	1.2.840.10008.5.1.4.1.1.10	Yes	Yes	No

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SOP Class		User of Service (SCU)	Provider of Service (SCP)	Display
Name	UID			
Standalone Overlay Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.8	Yes	Yes	No
Standalone PET Curve Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.129	Yes	Yes	No
Standalone VOI LUT Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.11	Yes	Yes	No
Ultrasound Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.6	Yes	Yes	Yes
Ultrasound Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.6.1	Yes	Yes	Yes
Ultrasound Multi-frame Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.3	Yes	Yes	Yes
Ultrasound Multi-frame Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.3.1	Yes	Yes	Yes
VL Endoscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.77.1.1	Yes	Yes	Yes
VL Microscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.77.1.2	Yes	Yes	Yes
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	Yes	Yes	Yes
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	Yes	Yes	Yes
X-Ray Angiographic Bi-Plane Image Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.12.3	Yes	Yes	Yes
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1	Yes	Yes	Yes
X-Ray Radiofluoroscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.2	Yes	Yes	Yes
Workflow Management				
Modality Performed Procedure Step SOP Class	1.2.840.10008.3.1.2.3.3	No	Yes	N/A
Modality Worklist Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.31	No	Yes	N/A
Storage Commitment Push Model SOP Class	1.2.840.10008.1.20.1	Yes	Yes	N/A

Table of Supported Media Services:

Table 2: MEDIA SERVICES

Write Files (FSC)	Read Files (FSR)	Update Files (FSU)
Yes	No	No

The media service will support the exporting of any DICOM SOP Class (see the above table the Section of the SOP Classes of transfer type) that IntelliSpace is supporting.

The Transfer Syntaxes for the exporting on media will be as follow:

- The following transfers syntaxes received on the network will be preserve for the media exchange:

JPEG_BASELINE (Process 1)	1.2.840.10008.1.2.4.50
JPEG_EXTENDED (Process 2 & 4)	1.2.840.10008.1.2.4.51
JPEG_2000 Image Compression	1.2.840.10008.1.2.4.91
- The following transfers syntaxes received on the network will be exchange on the media with the Explicit little Endian transfer syntax:

JPEG_LOSSLESS_Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57
JPEG_2000_LOSSLESS_ONLY	1.2.840.10008.1.2.4.90
RLE Lossless	1.2.840.10008.1.2.5

In addition the SOP Classes imitated by the IntelliSpace when it creates the SOP Class in IntelliSpace (GSPS and Encapsulated PDF) will be exchange on the media with the default transfer syntax: Explicit little Endian. The Encapsulated PDF SOP Class will be created by IntelliSpace Client only for the purpose of exporting the Radiology Report (received in HL7 ORU message) on Media. For more details on the Created Encapsulated PDF SOP Class, see Section 8.1.1.3

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3. Introduction

The introduction specifies product and relevant disclaimers as well as any general information that the vendor feels is appropriate.

3.1. Revision History

The revision history provides dates and differences of the different releases.

Table 3: Revision History

Document Version	Date of Issue	Status	Description
00	10-September-2010	Draft	Initial version
01	11-November-2010	Preliminary	Added changes for 4.4 (after input from review)
02	12-November-2010	Preliminary	Small updates on Import/Export tables (private sop added)
03	19-November-2010	Preliminary	Processed review comments
04	31-May-2011	Final	Final
05	08-June-2011	Final	Filled empty cells
06	14-June-2011	Final	Filled 3 empty cells
07	17-June-2011	Final	Removed the R in the product name
08	26-August-2011	Final	Query Matching Keys corrected MPPS attributes moved to the correct position

3.2. Audience

This Conformance Statement is intended for:

- (Potential) customers
- System integrators of medical equipment
- Marketing staff interested in system functionality
- Software designers implementing DICOM interfaces

It is assumed that the reader is familiar with the DICOM standard.

3.3. Remarks

The DICOM Conformance Statement is contained in chapter 4 through 8 and follows the contents and structuring requirements of DICOM PS 3.2.

This DICOM Conformance Statement by itself does not guarantee successful interoperability of Philips equipment with non-Philips equipment. The user (or user's agent) should be aware of the following issues:

- **Interoperability**
Interoperability refers to the ability of application functions, distributed over two or more systems, to work successfully together. The integration of medical devices into an IT environment may require application functions that are not specified within the scope of DICOM. Consequently, using only the information provided by this Conformance Statement does not guarantee interoperability of Philips equipment with non-Philips equipment. It is the user's responsibility to analyze thoroughly the application requirements and to specify a solution that integrates Philips equipment with non-Philips equipment.
- **Validation**
Philips equipment has been carefully tested to assure that the actual implementation of the DICOM interface corresponds with this

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Conformance Statement. Where Philips equipment is linked to non-Philips equipment, the first step is to compare the relevant Conformance Statements. If the Conformance Statements indicate that successful information exchange should be possible, additional validation tests will be necessary to ensure the functionality, performance, accuracy and stability of image and image related data. It is the responsibility of the user (or user's agent) to specify the appropriate test suite and to carry out the additional validation tests.

- **New versions of the DICOM Standard**

The DICOM Standard will evolve in future to meet the user's growing requirements and to incorporate new features and technologies. Philips is actively involved in this evolution and plans to adapt its equipment to future versions of the DICOM Standard. In order to do so, Philips reserves the right to make changes to its products or to discontinue its delivery. The user should ensure that any non-Philips provider linking to Philips equipment also adapts to future versions of the DICOM Standard. If not, the incorporation of DICOM enhancements into Philips equipment may lead to loss of connectivity (in case of networking) and incompatibility (in case of media).

The user should ensure that any non-Philips provider linking to Philips equipment also adapts to future versions of the DICOM Standard. If not, the incorporation of DICOM enhancements into Philips equipment may lead to loss of connectivity (in case of networking) and incompatibility (in case of media).

3.4. Definitions, Terms and Abbreviations

Table 4: Definitions, Terms and Abbreviations

Abbreviations/ Terms	Explanation
AE	Application Entity
ANSI	American National Standard Institute
AP	Application Profile
BOT	Basic Offset Table
CD	Compact Disc
CD-R	CD-Recordable
CD-M	CD-Medical
CR	Computed Radiography
CT	Computed Tomography
DCR	Dynamic Cardio Review
DICOM	Digital Imaging and Communication in Medicine
DIMSE	DICOM Message Service Element
DIMSE-C	DIMSE-Composite
DIMSE-N	DIMSE-Normalized
DX	Digital X-Ray
EBE	Explicit VR Big Endian
ELE	Explicit VR Little Endian
FSC	File-set Creator
FSR	File-set Reader
FSU	File-set Updater
GUI	Graphic User Interface
HIS	Hospital Information System
HL7	Health Level Seven
IHE	Integrating the Healthcare Enterprise
ILE	Implicit VR Little Endian
IOD	Information Object Definition
ISIS	Information System - Imaging System
MOD	Magneto-Optical Disk
MPPS	Modality Performed Procedure Step

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Abbreviations/ Terms	Explanation
MR	Magnetic Resonance
MTOM	Message Transmission Optimization Mechanism
NEMA	National Electrical Manufacturers Association
NM	Nuclear Medicine
PDU	Protocol Data Unit
RF	X-Ray Radiofluoroscopic
RIS	Radiology Information System
RT	Radiotherapy
RWA	Real-World Activity
SC	Secondary Capture
SCM	Study Component Management
SCP	Service Class Provider
SCU	Service Class User
SOAP	Simple Object Access Protocol (SOAP12 for SOAP version 1.2)
SOP	Service Object Pair
TCP/IP	Transmission Control Protocol/ Internet Protocol
UID	Unique Identifier
US	Ultrasound
USMF	Ultrasound Multi-frame
WADO	Web Access to DICOM Objects
WLM	Worklist Management
WS	Web Services
XA	X-Ray Angiographic

3.5. References

- [DICOM] Digital Imaging and Communications in Medicine, Parts 1 - 18 (NEMA PS 3.1- PS 3.18),
National Electrical Manufacturers Association (NEMA)
Publication Sales 1300 N. 17th Street, Suite 1752
Rosslyn, Virginia. 22209, United States of America
Internet: <http://medical.nema.org/>
Note that at any point in time the official standard consists of the most recent yearly edition of the base
standard (currently 2009) plus all the supplements and correction items that have been approved as Final Text.

4. Networking

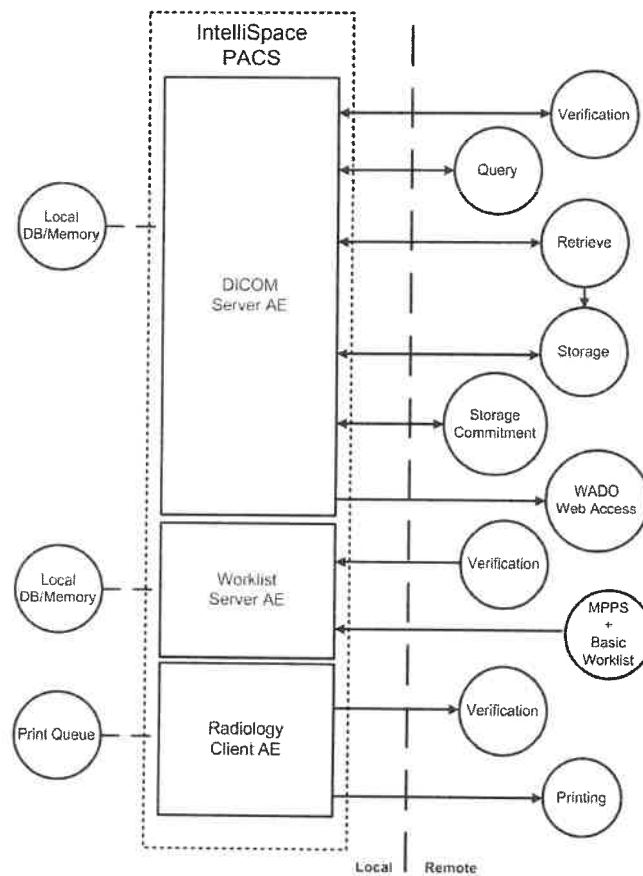
4.1. Implementation model

The implementation model consists of three sections:

- The application data flow diagram, specifying the relationship between the Application Entities and the "external world" or Real-World Activities,
- A functional description of each Application Entity, and
- The sequencing constraints among them.

4.1.1. Application Data Flow

The IntelliSpace DICOM Server, IntelliSpace Worklist Server, and IntelliSpace Radiology Client Application Entities are all integrated parts of the IntelliSpace product.



DICOM Standard Interface
Figure 1: Application Data Flow Diagram

4.1.2. Functional Definition of AE's

4.1.2.1. Functional Definition of IntelliSpace DICOM Radiology Client AE

The IntelliSpace Radiology Client is the Image Display Viewer and support the DICOM Query & Retrieve SCU (iQuery) to Query and Retrieve images from other Archives. In addition the IntelliSpace Radiology Client support the export of DICOM Study on Removable media CD/DVD in DICOM Part 10 format with DICOMDIR. Furthermore the Client also support the DICOM Print SCU. The IntelliSpace Client will initiate DICOM associations for DICOM Printing services on an as needed basis dependent upon interactive requests from users of the system.

When user invokes a print job and the SCU uses the SOP classes of a film session, a film box and image boxes for acquiring all the information which is required for a film session, the NACTION is used to print the film session. The DIMSE services of the Printer SOP Class and the Print Job SOP Class allow the SCU to control the print jobs and printer status information of the SCP.

4.1.2.2. Functional Definition of IntelliSpace DICOM Server AE

The IntelliSpace DICOM Server can both initiate and receive DICOM association requests. It runs as a Windows 2008 Server service and will automatically be started as part of the operating system. Once started, the IntelliSpace DICOM Server will wait for another application to connect to its DICOM Storage service at the presentation address configured for its high and low priority Application Entity Titles. IntelliSpace client applications also have the ability to initiate DICOM associations by the IntelliSpace DICOM Server to remote DICOM devices for Storage and Query/Retrieve services.

4.1.2.3. Functional Definition of IntelliSpace DICOM Worklist Server AE

The IntelliSpace Worklist Server runs as a Windows 2008 Server service and will be automatically started as part of the operating system. Once started, the IntelliSpace Worklist Server will wait for another application to connect to it DICOM Modality Worklist service at the presentation address configured.

4.2. AE Specifications

4.2.1. IntelliSpace DICOM Radiology Client AE

Detail of this specific Application Entity is specified in this section.

4.2.1.1. SOP Classes

This Application Entity provides Standard Conformance to the following SOP Classes.

Table 5: SOP Classes for IntelliSpace DICOM Radiology Client AE

SOP Class Name	SOP Class UID	SCU	SCP
Verification SOP Class	1.2.840.10008.1.1	Yes	No
Basic Grayscale Print Management Meta SOP Class	1.2.840.10008.5.1.1.9	Yes	No
>Basic Film Box SOP Class	1.2.840.10008.5.1.1.2	Yes	No
>Basic Film Session SOP Class	1.2.840.10008.5.1.1.1	Yes	No
>Basic Grayscale Image Box SOP Class	1.2.840.10008.5.1.1.4	Yes	No
>Printer SOP Class	1.2.840.10008.5.1.1.16	Yes	No

Note: Any SOP specific behavior is documented later in the conformance statement in the applicable SOP specific conformance section.

4.2.1.2. Association Policies

4.2.1.2.1. General

The Radiology Client will initiate DICOM associations for the DICOM Basic Printing Service and the DICOM Verification Service. The IntelliSpace Radiology Client application supports a maximum PDU size of 28K.

The DICOM standard application context is specified as follow:

Table 6: DICOM Application Context

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

4.2.1.2.2. Number of Associations

The IntelliSpace Radiology Client application only initiates a single associated at a time for the DICOM Basic Printing Service.

4.2.1.2.3. Asynchronous Nature

The IntelliSpace Radiology Client application does not request multiple outstanding transactions over the same association.

4.2.1.2.4. Implementation Identifying Information

The value supplied for Implementation Class UID and version name are as follow:

Table 7: DICOM Implementation Class and Version for IntelliSpace DICOM Radiology Client AE

Implementation Class UID	1.3.46.670589.42.3
Implementation Version Name	Philips_iSite_44

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4.2.1.2.5. Communication Failure Handling

The behavior of the AE during communication failure is summarized in next table.

Table 8: Communication Failure Behavior

Exception	Behavior
ARTIM Time-out	The Association is aborted using AP-ABORT and command marked as failed. The reason is logged and reported to the user.

4.2.1.3. Association Initiation Policy

The Application Entity will response on a received reject Association attempts as shown in the following table:

Table 9: Association Rejection response

Result	Source	Reason/Diagnosis	Explanation
1 - rejected-permanent	1 - DICOM UL service-user	1 - no-reason-given	IntelliSpace Radiology Client displays the error message
		2 - application-context-name-not-supported	IntelliSpace Radiology Client displays the error message
		3 - calling-AE-title-not-recognized	no association accomplished - error in log
		7 - called-AE-title-not-recognized	IntelliSpace Radiology Client displays the error message
	2 - DICOM UL service-provider (ACSE related function)	1 - no-reason-given	IntelliSpace Radiology Client displays the error message
		2 - protocol-version-not-supported	IntelliSpace Radiology Client displays the error message
2 - rejected-transient	3 - DICOM UL service-provider(Presentation related function)	1 - temporary-congestion	IntelliSpace Radiology Client displays the error message
		2 - Local-limit-exceeded	IntelliSpace Radiology Client displays the error message
	1 - DICOM UL service-user	1 - no-reason-given	IntelliSpace Radiology Client displays the error message
		2 - application-context-name-not-supported	IntelliSpace Radiology Client displays the error message
		3 - calling-AE-title-not-recognized	IntelliSpace Radiology Client displays the error message
		7 - called-AE-title-not-recognized	IntelliSpace Radiology Client displays the error message
	2 - DICOM UL service-provider (ACSE related function)	1 - no-reason-given	IntelliSpace Radiology Client displays the error message
		2 - protocol-version-not-supported	IntelliSpace Radiology Client displays the error message
	3 - DICOM UL service-provider (Presentation related function)	1 - temporary congestion	IntelliSpace Radiology Client displays the error message
		2 - local-limit-exceeded	IntelliSpace Radiology Client displays the error message

The behavior of the AE on receiving an association abort is summarized in next table:

Table 10: Association Abort Handling

Source	Reason/Diagnosis	Behavior
0 - DICOM UL service-user (initiated abort)	0 - reason-not-specified	Association is closed and error message is displayed
2 - DICOM UL service-provider (initiated abort)	0 - reason-not-specified	
	1 - unrecognized-PDU	
	2 - unexpected-PDU	
	4 - unrecognized-PDU parameter	
	5 - unexpected-PDU parameter	
	6 - invalid-PDU-parameter value	

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4.2.1.3.1. (Real-World) Activity – Verification as SCU

4.2.1.3.1.1. Description and Sequencing of Activities

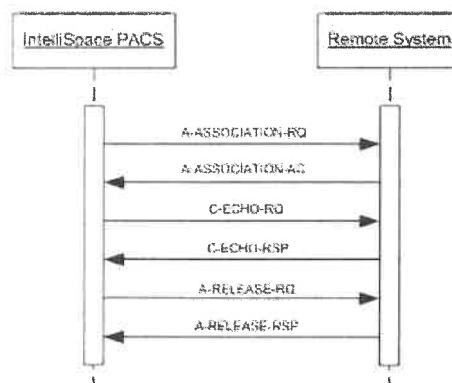


Figure 2: Sequence of C-Echo as SCU

4.2.1.3.1.2. Proposed Presentation Contexts

The presentation contexts are defined in next table.

Table 11: Proposed Presentation Contexts for (Real-World) Activity – Verification as SCU

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Verification SOP Class	1.2.840.10008.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.1.3.1.3. SOP Specific Conformance for Verification SOP Class

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.1.3.1.3.1. Dataset Specific Conformance for Verification C-ECHO SCU

The details regarding the response behavior to status codes are provided in next table.

Table 12: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Confirmation	The SCP has successfully responded to the verification request

4.2.1.3.2. (Real-World) Activity – Print Management as SCU

4.2.1.3.2.1. Description and Sequencing of Activities

The IntelliSpace Radiology Client application entity will establish and manage associations with remote DICOM entities to service user requests for DICOM Image Printing. User requests for DICOM Image Printing are initiated by user interaction with the application interface.

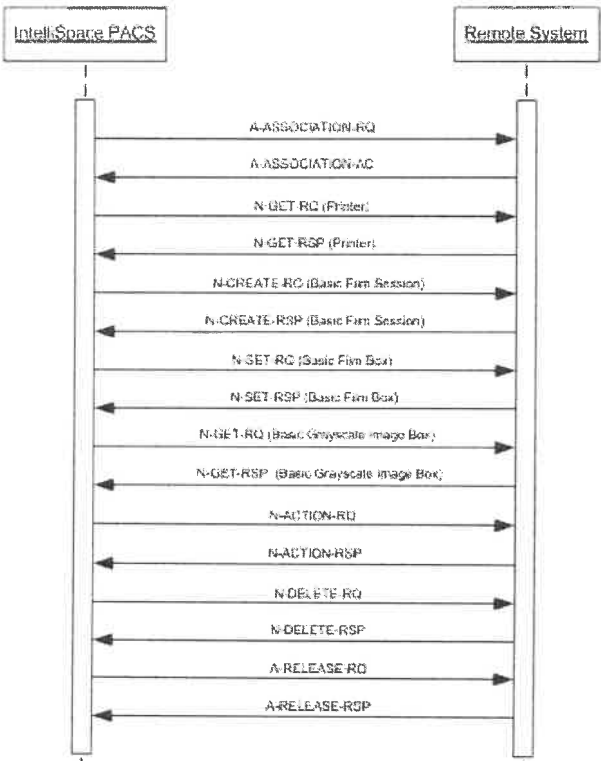


Figure 3: Sequence of Print Management as SCU

Note: The Printer Status N-GET and the N-EVENT-REPORT are Asynchronous messages that may occur at any time it is needed during the Print association open.

4.2.1.3.2.2. Proposed Presentation Contexts

The presentation contexts are defined in next table.

Table 13: Proposed Presentation Contexts for (Real-World) Activity – Print Management as SCU

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Basic Grayscale Print Management Meta SOP Class	1.2.840.10008.5.1.1.9	N/A	N/A	SCU	None
>Basic Film Box SOP Class	1.2.840.10008.5.1.1.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
>Basic Film Session SOP Class	1.2.840.10008.5.1.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
>Basic Grayscale Image Box SOP Class	1.2.840.10008.5.1.1.4	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
>Printer SOP Class	1.2.840.10008.5.1.1.16	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None

This section specifies each IOD created (including private IOD's).

Abbreviations used in the Module table for the column "Presence of Value" are:

ALWAYS	The attribute is always present with a value
EMPTY	The attribute is always present without any value (attribute sent zero length)
VNAP	The attribute is always present and its Value is Not Always Present (attribute sent zero length if no value is present)
ANAP	The attribute is present under specified condition – if present then it will always have a value
VNAPCV	The attribute is present under specified condition – if present then its Value is Not Always Present (attribute sent zero length if condition applies and no value is present)
ANAPEV	The attribute is present under specified condition – if present then it will not have any value

The abbreviations used in the Module table for the column "Source" are:

AUTO	The attribute value is generated automatically
CONFIG	The attribute value source is a configurable parameter
COPY	The attribute value source is another SOP instance
FIXED	The attribute value is hard-coded in the application
IMPLICIT	The attribute value source is a user-implicit setting
MPPS	The attribute value is the same as that use for Modality Performed Procedure Step
MWL	The attribute value source is a Modality Worklist
USER	The attribute value source is explicit user input

4.2.1.3.2.3. SOP Specific Conformance for Basic Film Box SOP Class of the Basic Grayscale Print Management Meta SOP Class

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.1.3.2.3.1. Dataset Specific Conformance for Basic Film Box N-ACTION SCU

An N-ACTION Request is issued to instruct the Print SCP to print the contents of the Film Box. The Action Reply argument in an N-ACTION response is not evaluated. The behavior of Hardcopy AE when encountering status codes in a N-ACTION response is summarized in the Table below:

Table 14: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	The SCP has completed the operation successfully.	The film has been accepted for printing
Failed	C602	Unable to create Print Job SOP Instance; print queue is full.	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is displayed.
	C603	Film Box is empty, does not contain any image instance OR Image size is larger than Image Box size.	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is displayed.
	C613	Combined Print Image Size is larger than Image Box size.	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is displayed.
Warning	B604	Image size is larger than Image Box size. The image has been unmagnified.	The N-ACTION operation is considered successful but the status meaning is displayed.
	B609	Image size is larger than Image Box size. The image has been cropped to fit.	The N-ACTION operation is considered successful but the status meaning is displayed.
	B60A	Image size or Combined Print Image Size is larger than Image Box size. The image or combined Print Image has been decimated to fit.	The N-ACTION operation is considered successful but the status meaning is displayed.
Other	xxxx	For any other Failed	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is displayed.

4.2.1.3.2.3.2. Dataset Specific Conformance for Basic Film Box N-CREATE SCU

Detail regarding the Dataset Specific response behavior will be reported in this section.

Table 15: Basic Film Box SOP Class N-CREATE Request Attributes

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Display Format	2010,0010	ST	STANDARD, ROW, COL	ALWAYS	CONFIG	
Film Orientation	2010,0040	CS	LANDSCAPE, PORTRAIT	VNAPCV	USER	
Film Size ID	2010,0050	CS	8INX10IN, 8_5INX11IN, 10INX12IN, 10INX14IN, 11INX14IN, 11INX17IN, 14INX14IN, 14INX17IN, 24CMX24CM, 24CMX30CM, A4, A3	VNAPCV	USER	
Min Density	2010,0120	US	Unsigned Short	VNAPCV	COPY	
Max Density	2010,0130	US	Unsigned Short	VNAPCV	COPY	
Trim	2010,0140	CS	NO, YES	VNAPCV	USER	
Configuration Information	2010,0150	ST	Short Text	VNAPCV	CONFIG	

The following are the status response values for the Basic Film Box N-CREATE:

Contractor to initial.....

Table 16: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Film Box successfully created	Send an N-Action for the created Film box to be printed
Warning	B605	Requested Min Density or Max Density outside of printer's operating range. The printer will use its respective minimum or maximum density value instead.	Display the warning on the IntelliSpace Radiology User Interface
Failure	C616	There is an existing Film Box that has not been printed and N-ACTION at the Film Session level is not supported. A new Film Box will not be created when a previous Film Box has not been printed.	Display the error on the IntelliSpace Radiology User Interface, Printer need to clear the Error before it can get new film box/sessions to print
	0112	Invalid SOP Instance UID	Display the error on the IntelliSpace Radiology User Interface, Film Box can't be printed
	0110	Processing Failure	Display error on the IntelliSpace Radiology User Interface, Film Box can't be printed

4.2.1.3.2.4. SOP Specific Conformance for Basic Film Session SOP Class of the Basic Grayscale Print Management Meta SOP Class

The Basic Film Session IOD describes the presentation parameters which are common for all the films of a film session (e.g. number of films, film destination). The Basic Film Session SOP Instance refers to one or more Basic Film Box SOP Instances.

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.1.3.2.4.1. Dataset Specific Conformance for Basic Film Session N-CREATE SCU

The IntelliSpace Radiology Film Session N-CREATE is used to create an instance of the Basic Film Session SOP Class. The following table describes the attributes being set by the N-CREATE:

Table 17: Basic Film Session SOP Class N-CREATE SCU Request Attributes

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Number of Copies	2000,0010	IS	Integer String	VNAPCV	USER	
Print Priority	2000,0020	CS	LOW	VNAPCV	FIXED	
Medium Type	2000,0030	CS	BLUE FILM, CLEAR FILM, PAPER	ALWAYS	USER	

The behavior of IntelliSpace Radiology AE when encountering status codes in a N-CREATE response is summarized in the Table below:

Table 18: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	The SCP has completed the operation successfully.	The film has been accepted for printing.

Service Status	Error Code	Further Meaning	Behavior
Warning	0116	Attribute Value Out of Range	The N-CREATE operation is considered successful but the status meaning is logged. Additional information in the Response identifying the attributes out of range will be logged (i.e. Elements in the Modification List/Attribute List)
	0107	Attribute List Error	The N-CREATE operation is considered successful but the status meaning is logged. Additional information in the Response identifying the attributes will be logged (i.e. Elements in the Attribute Identifier List)
Failed	0106	No Memory Allocation Available	The SCP has no more memory allocation available for the new Film session.
	0213	Temporary No Memory Allocation Available	Temporarily, the Printer has no memory allocation available. Memory will free up as printer complete printing the current print jobs. The SCU will retry creating the Film session
	0112	Invalid SOP Instance UID	Display the error on the IntelliSpace Radiology User Interface, Film Box can't be printed
	0110	Processing Failure	Display the error on the IntelliSpace Radiology User Interface, Film Box can't be printed
Other	xxxx	For any other Failed	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.

4.2.1.3.2.5. SOP Specific Conformance for Basic Grayscale Image Box SOP Class of the Basic Grayscale Print Management Meta SOP Class

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.1.3.2.5.1. Dataset Specific Conformance for Basic Grayscale Image Box N-SET SCU

Detail regarding the Dataset Specific response behavior will be reported in this section.

Table 19: Basic Grayscale Image Box SOP Class N-SET Response Attributes

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Position	2020,0010	US	Unsigned Short	ALWAYS	COPY	
Basic Grayscale Image Sequence	2020,0110	SQ	N/A	N/A	N/A	
>Samples Per Pixel	0028,0002	US	1	ALWAYS	FIXED	
>Photometric Interpretation	0028,0004	CS	MONOCHROME2	ALWAYS	FIXED	
>Rows	0028,0010	US	Unsigned Short	ALWAYS	COPY	
>Columns	0028,0011	US	Unsigned Short	ALWAYS	COPY	
>Pixel Aspect Ratio	0028,0034	IS	Integer String	ALWAYS	COPY	
>Bits Allocated	0028,0100	US	8	ALWAYS	FIXED	
>Bits Stored	0028,0101	US	8	ALWAYS	FIXED	
>High Bit	0028,0102	US	7	ALWAYS	FIXED	
>Pixel Representation	0028,0103	US	0000H	ALWAYS	FIXED	
>Pixel Data	7FE0,0010	OS	Pixel Data	ALWAYS	COPY	

The behavior of the IntelliSpace Radiology AE when encountering status codes in an Image Box, N-SET response is summarized in the table below:

Table 20: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	The SCP has completed the operation successfully.	The film has been accepted for printing.
Failed	C603	Image size is larger than Image Box size.	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.
	C605	Insufficient memory in printer to store the image.	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.
	C613	Combined Print Image Size is larger than Image Box size.	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported to the user.
Warning	B605	Requested Min Density or Max Density outside of printer's operating range.	The N-SET operation is considered successful but the status meaning is logged.
	B609	Image size is larger than Image Box size. The image has been cropped to fit.	The N-SET operation is considered successful but the status meaning is logged.
	B60A	Image size or Combined Print Image Size is larger than Image Box size. The image or combined Print Image has been decimated to fit.	The N-SET operation is considered successful but the status meaning is logged.
Other	xxxx	For any other Failed	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is displayed.

4.2.1.3.2.6. SOP Specific Conformance for Printer SOP Class of the Basic Grayscale Print Management Meta SOP Class

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.1.3.2.6.1. Dataset Specific Conformance for Printer N-GET SCU

Detail regarding the Dataset Specific response behavior will be reported in this section.

Table 21: Printer SOP Class N-GET Request Attributes

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Printer Status	2110,0010	CS	String	VNAPCV	Printer	See below the Notes for Printer Status
Printer Status Info	2110,0020	CS	String	VNAPCV	Printer	See below the Note for Printer Status Info

The Printer Status information is evaluated as follows:

1. If Printer status (2110,0010) is NORMAL, the print-job continues to be printed.
2. If Printer status (2110,0010) is WARNING, the print-job continues to be printed. The contents of Printer Status Info (2110,0020) is logged and reported to the IntelliSpace Display.
3. If Printer status (2110,0010) is FAILURE, the print-job is marked as failed. The contents of Printer Status Info (2110,0020) is logged and reported to the user on the IntelliSpace Display.

The reasons for returning specific status codes in a N-EVENT-REPORT response are summarized in the Table below:

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Table 22: Status Response

Service Status	Error Code	Further Meaning	Explanation
Success	0000	The request to get printer status information was successful.	Printer accept the request to send Printer Status
Warning	0101	Received Optional Unsupported Attributes.	The contents of Printer Status Info (2110,0020) is logged and reported to the IntelliSpace Display.
	0107	Attribute List Error.	The contents of Printer Status Info (2110,0020) is logged and reported to the IntelliSpace Display.
Failure	0110	Print job failed.	The Association is aborted using A-ABORT and the print-job is marked as failed. The status meaning is logged and reported on the IntelliSpace Display.
	0112		
	0118		
	0119		
	0210		
	0211		
	0212		
	0213		

4.2.1.3.2.6.2. Dataset Specific Conformance for Printer N-EVENT-REPORT SCP

The IntelliSpace Radiology is capable of receiving an N-EVENT-REPORT request at any time during the Print Management association.

The following table describes the IntelliSpace Radiology behavior when receiving an N-EVENT-REPORT-RQ:

Table 23: N-EVENT Report Behavior

Event Type Name	Event Type ID	Behavior
Normal	1	The print-job continues to be printed.
Warning	2	The print-job continues to be printed. The contents of Printer Name (2110,0030) and Printer Status Info (2110,0020) is logged and reported on the IntelliSpace Display Screen
Failure	3	The print-job is marked as failed. The contents of Printer Name (2110,0030) and Printer Status Info (2110,0020) is logged and reported on the IntelliSpace Display Screen

The reasons for returning specific status codes in a N-EVENT-REPORT response are summarized in the Table below:

Table 24: Status Response

Service Status	Error Code	Further Meaning	Explanation
Success	0000	The request to get printer status information was successful.	Printer accept the request to send Printer Status.
Failure	0110	No Such Event Type	An invalid Event Type ID was supplied in the N-EVENT-REPORT request.
	0113	Processing Failure	An internal error occurred during processing of the N-EVENT-REPORT.

4.2.1.4. Association Acceptance Policy

The Application Entity may reject Association attempts as shown in the table below.

Table 25: Association Reject Reasons

Result	Source	Reason/Diagnosis	Explanation
1 - rejected permanent	1 - DICOM UL service-user	1 - no-Reason-given	IntelliSpace Radiology Client displays the error message
		2 - application-context-name-not-supported	
		3 - calling-AE-title-not-recognized	
		7 - called-AE-title-not-recognized	
	2 - DICOM UL service provider (ACSE related function)	1 - no-reason-given	IntelliSpace Radiology Client displays the error message
		2 - protocol-version-not-supported	
2 - Rejected-transient	3 - DICOM UL service provider (Presentation related function)	1 - temporary-congestion	IntelliSpace Radiology Client displays the error message
		2 - local-limit-exceeded	
		1 - no-Reason-given	IntelliSpace Radiology Client displays the error message
		2 - application-context-name-not-supported	
	1 - DICOM UL service-user	3 - calling-AE-title-not-recognized	IntelliSpace Radiology Client displays the error message
		7 - called-AE-title-not-recognized	
	2 - DICOM UL service provider (ACSE related function)	1 - no-reason-given	IntelliSpace Radiology Client displays the error message
		2 - protocol-version-not-supported	
	3 - DICOM UL service provider (Presentation related function)	1 - temporary-congestion	IntelliSpace Radiology Client displays the error message
		2 - local-limit-exceeded	

The behavior of the AE for sending an association abort is summarized in next table

Table 26: Association Abort Policies

Source	Reason/Diagnosis	Behavior
0 - DICOM UL service-user (initiated abort)	0 - reason-not-specified	Association is closed and error message is logged
2 - DICOM UL service-provider (initiated abort)	0 - reason-not-specified	
	1 - unrecognized-PDU	
	2 - unexpected-PDU	
	4 - unrecognized-PDU parameter	
	5 - unexpected-PDU parameter	
	6 - invalid-PDU-parameter value	

4.2.2. IntelliSpace DICOM Server AE

Detail of this specific Application Entity is specified in this section.

4.2.2.1. SOP Classes

This Application Entity provides Standard Conformance to the following SOP Classes.

Table 27: SOP Classes for IntelliSpace DICOM Server AE

SOP Class Name	SOP Class UID	SCU	SCP
Verification SOP Class	1.2.840.10008.1.1	Yes	Yes
Storage Commitment Push Model SOP Class	1.2.840.10008.1.20.1	Yes	Yes
Modality Performed Procedure Step SOP Class	1.2.840.10008.3.1.2.3.3	No	Yes
Stored Print Storage	1.2.840.10008.5.1.1.27	Yes	No
Computed Radiography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.1	Yes	Yes
Digital X-Ray Image Storage - For Pres. SOP	1.2.840.10008.5.1.4.1.1.1.1	Yes	Yes
Digital X-Ray Image Storage - For Proc. SOP	1.2.840.10008.5.1.4.1.1.1.1.1	Yes	Yes
Digital Mammography X-Ray Image Storage - Pres. SOP	1.2.840.10008.5.1.4.1.1.1.2	Yes	Yes
Digital Mammography X-Ray Image Storage - Proc. SOP	1.2.840.10008.5.1.4.1.1.1.2.1	Yes	Yes
Digital Intra-oral X-Ray Image Storage - Pres. SOP	1.2.840.10008.5.1.4.1.1.1.3	Yes	Yes
Digital Intra-oral X-Ray Image Storage - Proc. SOP	1.2.840.10008.5.1.4.1.1.1.3.1	Yes	Yes
Standalone Modality LUT Storage (Retired)	1.2.840.10008.5.1.4.1.1.10	Yes	Yes
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	Yes	Yes
Standalone VOI LUT Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.11	Yes	Yes
Grayscale Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.1	Yes	Yes
Color Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.2	Yes	Yes
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1	Yes	Yes
X-Ray Radiofluoroscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.2	Yes	Yes
X-Ray Angiographic Bi-Plane Image Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.12.3	Yes	Yes
Positron Emission Tomography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.128	Yes	Yes
Standalone PET Curve Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.129	Yes	Yes
Breast Tomosynthesis Image Storage	1.2.840.10008.5.1.4.1.1.13.1.3	Yes	Yes
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	Yes	Yes
Nuclear Medicine Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.20	Yes	Yes
Ultrasound Multi-frame Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.3	Yes	Yes
Ultrasound Multi-frame Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.3.1	Yes	Yes
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4	Yes	Yes
RT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.1	Yes	Yes
RT Dose Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.2	Yes	Yes
RT Structure Set Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.3	Yes	Yes
RT Beams Treatment Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.4	Yes	Yes
RT Plan Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.5	Yes	Yes
RT Brachy Treatment Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.6	Yes	Yes
RT Treatment Summary Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.7	Yes	Yes
Nuclear Medicine Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.5	Yes	Yes
Ultrasound Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.6	Yes	Yes
Ultrasound Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.6.1	Yes	Yes
Raw Data Storage SOP Class	1.2.840.10008.5.1.4.1.1.66	Yes	Yes
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	Yes	Yes
Multi-frame Single Bit Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.1	Yes	Yes
Multi-frame Grayscale Byte SC Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.2	Yes	Yes

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TBH202/2025 – FOR A FULL DIGITAL MAMMOGRAPHY (FFDM) INCLUDING A DIGITAL AND BREAST TOMOSYNTHESIS (TBT) SYSTEM, INCLUDING FLAT DETECTOR FOR SCREENING AND DIAGNOSTIC IMAGING, ACQUISITION WORKSTATION, STEREOTACTIC BIOPSY AND GUIDANCE SYSTEM, SPECIMEN SCANNER, CONTRAST ENHANCED MAMMOGRAPHY CAPABILITY FOR USE IN THE RADIOLOGY DEPARTMENT AT TYGERBERG HOSPITAL.

SOP Class Name	SOP Class UID	SCU	SCP
Multi-frame Grayscale Word SC Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.3	Yes	Yes
Multi-frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	Yes	Yes
VL Endoscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.77.1.1	Yes	Yes
VL Microscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.77.1.2	Yes	Yes
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	Yes	Yes
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	Yes	Yes
Standalone Overlay Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.8	Yes	Yes
Basic Text SR SOP Class	1.2.840.10008.5.1.4.1.1.88.11	Yes	Yes
Enhanced SR SOP Class	1.2.840.10008.5.1.4.1.1.88.22	Yes	Yes
Detail SR Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.88.3	Yes	Yes
Comprehensive SR SOP Class	1.2.840.10008.5.1.4.1.1.88.33	Yes	Yes
Mammography CAD SR SOP Class	1.2.840.10008.5.1.4.1.1.88.50	Yes	Yes
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	Yes	Yes
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	Yes	Yes
Standalone Curve Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.9	Yes	Yes
12-Lead ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.1	Yes	Yes
General ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.2	Yes	Yes
Ambulatory ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.3	Yes	Yes
Hemodynamic Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.2.1	Yes	Yes
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	Yes	Yes
Basic Voice Audio Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.4.1	Yes	Yes
Patient Root QR Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.1.2.1.1	Yes	Yes
Patient Root QR Information Model - C-MOVE SOP Class	1.2.840.10008.5.1.4.1.2.1.2	Yes	Yes
Study Root QR Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.1.2.2.1	Yes	Yes
Study Root QR Information Model - C-MOVE SOP Class	1.2.840.10008.5.1.4.1.2.2.2	Yes	Yes
Patient/Study Only QR Info. Model - C-FIND SOP Class (Retired)	1.2.840.10008.5.1.4.1.2.3.1	Yes	Yes
Patient/Study Only QR Info. Model - C-MOVE SOP Class (Retired)	1.2.840.10008.5.1.4.1.2.3.2	Yes	Yes
GE Nuclear Medicine private SOP Class	1.2.840.113619.4.27	Yes	Yes
Philips Private MR Spectrum Storage	1.3.46.670589.11.0.0.12.1	Yes	Yes
Philips Private MR Series Data Storage	1.3.46.670589.11.0.0.12.2	Yes	Yes
Philips Private X-Ray Image Storage	1.3.46.670589.2.3.1.1	Yes	Yes
Philips Private Reconstructed X-ray Storage	1.3.46.670589.2.4.1.1	Yes	Yes
Philips Private iE33 3D NEO Presentation State Subpage Storage	1.3.46.670589.2.5.1.1	Yes	Yes
Philips Private EasyVision Volume Storage	1.3.46.670589.5.0.1	Yes	Yes
Philips Private ViewForum 3D Volume New Storage	1.3.46.670589.5.0.1.1	Yes	Yes
Philips Private ViewForum MR Synthetic Image Storage	1.3.46.670589.5.0.10	Yes	Yes
Philips Private EasyVision MR Cardio Analysis Storage	1.3.46.670589.5.0.11	Yes	Yes
Philips Private ViewForum MR Cardio Analysis New Storage	1.3.46.670589.5.0.11.1	Yes	Yes
Philips Private ViewForum CX Synthetic Image Storage	1.3.46.670589.5.0.12	Yes	Yes
Philips Private ViewForum Perfusion Storage	1.3.46.670589.5.0.13	Yes	Yes
Philips Private ViewForum Perfusion Analysis Storage	1.3.46.670589.5.0.14	Yes	Yes
Philips Private EasyVision 3D Volume Object Storage	1.3.46.670589.5.0.2	Yes	Yes
Philips Private ViewForum 3D Volume Object New Storage	1.3.46.670589.5.0.2.1	Yes	Yes
Philips Private EasyVision Surface Storage	1.3.46.670589.5.0.3	Yes	Yes
Philips Private ViewForum Surface New Storage	1.3.46.670589.5.0.3.1	Yes	Yes
Philips Private MR Cardio Profile Image Storage	1.3.46.670589.5.0.7	Yes	Yes
Philips Private EasyVision MR Cardio Storage	1.3.46.670589.5.0.8	Yes	Yes
Philips Private ViewForum MR Cardio New Storage	1.3.46.670589.5.0.8.1	Yes	Yes
Philips Private ViewForum CT Synthetic Image Storage	1.3.46.670589.5.0.9	Yes	Yes

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Note: Any SOP specific behavior is documented later in the conformance statement in the applicable SOP specific conformance section.

4.2.2.2. Association Policies

Each AE specification contains a description of the general association establishment and acceptance policies of the AE.

4.2.2.2.1. General

The IntelliSpace DICOM Server application will request associations and accept associations for DICOM Storage and Query/Retrieve. The IntelliSpace DICOM Server application supports a maximum PDU size of 63KB.

The DICOM standard application context has specified.

Table 28: DICOM Application Context

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

4.2.2.2.2. Number of Associations

The number of simultaneous associations that an Application Entity may support as a Initiator or Acceptor is specified.

Table 29: Number of associations as an Association Initiator for this AE

Description	Value
Maximum number of simultaneous associations	3 (Default) / 1 (Q/R)

Table 30: Number of associations as an Association Acceptor for this AE

Description	Value
Maximum number of simultaneous associations	This is limited by the hardware platform and overall system performance requirements (Not Configurable)

4.2.2.2.3. Asynchronous Nature

The IntelliSpace DICOM Server application does not support negotiation of multiple outstanding transactions.

4.2.2.2.4. Implementation Identifying Information

The value supplied for Implementation Class UID and version name are documented here.

Table 31: DICOM Implementation Class and Version for IntelliSpace DICOM Server AE

Implementation Class UID	1.3.46.670589.42.3
Implementation Version Name	Philips_iSite_44

4.2.2.2.5. Communication Failure Handling

The behavior of the AE during communication failure is summarized in next table.

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Table 32: Communication Failure Behavior

Exception	Behavior
ARTIM Time-out	The Association is aborted using AP-ABORT and command marked as failed. The reason is logged and reported to the user.

4.2.2.3. Association Initiation Policy

The Application Entity will response on a received reject Association attempts as shown in next table.

Table 33: Association Rejection response

Result	Source	Reason/Diagnosis	Explanation
1 - rejected-permanent	1 - DICOM UL service-user	1 - no-reason-given	The user is informed and details are logged.
		2 - application-context-name-not supported	The user is informed and details are logged.
		3 - calling-AE-title-not-recognized	The user is informed and details are logged.
		7 - called-AE-title-not-recognized	The user is informed and details are logged.
	2 - DICOM UL service-provider (ACSE related function)	1 - no-reason-given	The user is informed and details are logged.
		2 - protocol-version-not-supported	The user is informed and details are logged.
2 - rejected-transient	3 - DICOM UL service-provider(Presentation related function)	1 - temporary-congestion	The user is informed and details are logged.
		2 - Local-limit-exceeded	The user is informed and details are logged.
	1 - DICOM UL service-user	1 - no-reason-given	The user is informed and details are logged.
		2 - application-context-name-not-supported	The user is informed and details are logged.
		3 - calling-AE-title-not-recognized	The user is informed and details are logged.
		7 - called-AE-title-not-recognized	The user is informed and details are logged.
	2 - DICOM UL service-provider (ACSE related function)	1 - no-reason-given	The user is informed and details are logged.
		2 - protocol-version-not-supported	The user is informed and details are logged.
	3 - DICOM UL service-provider (Presentation related function)	1 - temporary congestion	The user is informed and details are logged.
		2 - local-limit-exceeded	The user is informed and details are logged.

The behavior of the AE on receiving an association abort is summarized in next table.

Table 34: Association Abort Handling

Source	Reason/Diagnosis	Behavior
0 - DICOM UL service-user (initiated abort)	0 - reason-not-specified	Notifies remote AE, terminates the connection and logs the event.
2 - DICOM UL service-provider (initiated abort)	0 - reason-not-specified	Notifies remote AE, terminates the connection and logs the event.
	1 - unrecognized-PDU	Notifies remote AE, terminates the connection and logs the event.
	2 - unexpected-PDU	Notifies remote AE, terminates the connection and logs the event.
	4 - unrecognized-PDU parameter	Notifies remote AE, terminates the connection and logs the event.
	5 - unexpected-PDU parameter	Notifies remote AE, terminates the connection and logs the event.
	6 - invalid-PDU-parameter value	Notifies remote AE, terminates the connection and logs the event.

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4.2.2.3.1. (Real-World) Activity – Verification as SCU

4.2.2.3.1.1. Description and Sequencing of Activities

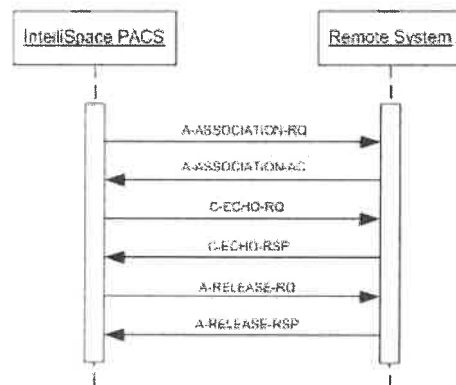


Figure 4: (Real-World) Activity – C-ECHO as SCU

4.2.2.3.1.2. Proposed Presentation Contexts

The presentation contexts are defined in the next table.

Table 35: Proposed Presentation Contexts for (Real-World) Activity – Verification as SCU

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Verification SOP Class	1.2.840.10008.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.3.1.3. SOP Specific Conformance for Verification SOP Class

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.3.1.3.1. Dataset Specific Conformance for Verification C-ECHO SCU

Details regarding the Dataset Specific response behavior:

Table 36: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Confirmation	The SCP has successfully responded to the verification request

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4.2.2.3.2. (Real-World) Activity – C-FIND as SCU

4.2.2.3.2.1. Description and Sequencing of Activities

IntelliSpace client applications use the iQuery tool of the IntelliSpace DICOM Server to initiate and manage DICOM associations with remote Application Entities that support the DICOM Query/Retrieve Service as a Service Class Provider. The iQuery tool allows IntelliSpace client applications to interact with the IntelliSpace DICOM Server via a proprietary interface. The IntelliSpace DICOM Server's iQuery tool is an interactive end-user application and will generate DICOM transactions based upon end-user initiated activities.

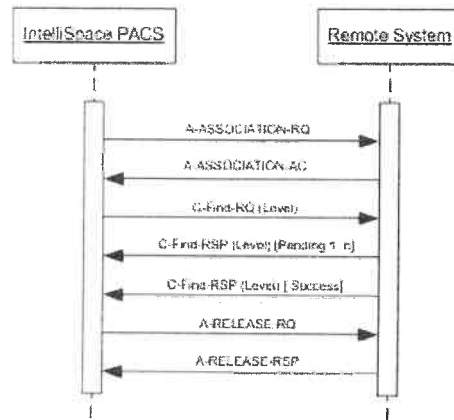


Figure 5: (Real-World) Activity – C-FIND as SCU

4.2.2.3.2.2. Proposed Presentation Contexts

The presentation contexts are defined in the next table.

Table 37: Proposed Presentation Contexts for (Real-World) Activity – C-FIND as SCU

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Patient Root QR Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.1.2.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Patient/Study Only QR Info. Model - C-FIND SOP Class (Retired)	1.2.840.10008.5.1.4.1.2.3.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Study Root QR Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.1.2.2.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.3.2.3. SOP Specific Conformance for Patient Root QR Information Model - C-FIND SOP Class

The iQuery tool provides standard conformance to the DICOM Patient Root Query/Retrieve Information Model C-FIND SOP class as an SCU with the following exceptions:

- Front end of iQuery tool is the IntelliSpace Client applications. IntelliSpace Client is conforming to the IHE Radiology SWF profile Image Display actor and is supporting the DICOM C-FIND Query with all the required matching keys at the levels: Patient, Study and Series. For more details see the Radiology Technical Framework, Vol 2, Table 4.14-1.
- Patient's Name key attribute matching type is implicitly converted from a single value matching to wild card matching by adding a wild card "*" character at the end of its value.
- Specific Character Set attribute (0008,0005) is set to "ISO_IR 100"

IntelliSpace Supports all the DICOM Query Information models. The User can select the support of one of the following DICOM Query Information models:

1. Patient Root Information Model
2. Study Root Information Model
3. Patient/Study Only Information Model

If a specific information model was chosen by the user then IntelliSpace will negotiate the association only for that specific type of information model. However, IntelliSpace user can also choose the "Unknown" information Model, which in this case IntelliSpace will negotiate for an information model in the following order: Patient Root, Study Root, Patient/Study Only.

If none of these models are supported by the SCP an error will be logged and association is closed.

4.2.2.3.2.3.1. Dataset Specific Conformance for Patient Root QR Information Model - C-FIND SOP Class C-FIND-SCU

Detail regarding the Dataset Specific response behavior will be reported in this section.

Table 38: Supported Query Keys for Patient Root Information Model

Patient Root Information Model				
Attribute Name	Tag	VR	Type Of Matching	Comment
Q/R Patient level (Patient Root)				
Patient's Name	0010,0010	PN	Single Value, Universal, Wildcard	For Wildcard see 4.2.2.3.2.3
Patient ID	0010,0020	LO	Single Value, Universal, Wildcard	
Q/R Study level (Patient Root)				
Study Date	0008,0020	DA	Single Value, Range, Universal	
Study Time	0008,0030	TM	Single Value, Range, Universal	
Accession Number	0008,0050	SH	Single Value, Universal, Wildcard	
Modality in Study	0008,0061	CS	Multi Value	
Referring Physicians Name	0008,0090	PN	Single Value, Universal, Wildcard	
Study Description	0008,1030	LO	N/A	Optional Attribute Not used in Matching but returned existence whether or not part of the request
Patient's Name	0010,0010	PN	Single Value, Universal, Wildcard	For Wildcard see 4.2.2.3.2.3
Patient ID	0010,0020	LO	Single Value, Universal	
Study Instance UID	0020,000D	UI	Single Value, Universal, List Of UID	
Study ID	0020,0010	SH	Single Value, Universal, Wildcard	
Q/R Series level (Patient Root)				
Modality	0008,0060	CS	Single Value, Universal	

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Patient ID	0010,0020	LO	Single Value, Universal	
Body Part Examined	0018,0015	CS	Universal	
Study Instance UID	0020,000D	UI	Single Value, Universal	
Series Instance UID	0020,000E	UI	Single Value, Universal, List Of UID	
Series Number	0020,0011	IS	Single Value, Universal	
Performed Procedure Step Start Date	0040,0244	DA	Single Value, Range, Universal	
Performed Procedure Step Start Time	0040,0245	TM	Single Value, Range, Universal	
Request Attribute Sequence	0040,0275	SQ	N/A	Optional Attribute. Matching is performed up to 1 item level
> Scheduled Procedure Step ID	0040,0009	SH	Single Value, Universal, Wildcard	
> Requested Procedure ID	0040,1001	SH	Single Value, Universal, Wildcard	

Table 39: C-FIND-RSP Patient Root - Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	Continue processing response
Pending	FF00	Current match is supplied	Process requests up to the set max number of responses and if the results exceed this number send A-RELEASE-RQ
	FF01	Matches are continuing but one or more Optional Keys were not supported.	
Cancel	FE00	Matching terminated due to Cancel Request	Stop waiting for response from the SCP and send the responses received before the cancel request to the IntelliSpace client.

Table 40: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged
SCP does not support any of the Query/Retrieve Information Models	The error is logged and the IntelliSpace client is notified of the failure and the association is closed

4.2.2.3.2.4. SOP Specific Conformance for Patient/Study Only QR Info. Model – C-FIND SOP Class (Retired) SCU

The iQuery tool provides standard conformance to the DICOM Patient/Study Only Query/Retrieve Information Model C-FIND SOP class as an SCU with the following exceptions:

- Front end of iQuery tool is the IntelliSpace Client applications. IntelliSpace Client iQuery tool, is conforming to the IHE Radiology SWF profile Image Display actor and is supporting the DICOM C-FIND Query with all the required matching keys at the levels: Patient and Study. For more details see the Radiology Technical Framework, Vol 2, Table 4.14-1.
- Patient's Name key attribute matching type is implicitly converted from a single value matching to wild card matching by adding a wild card "*" character at the end of its value.
- Specific Character Set attribute (0008,0005) is set to "ISO_IR 100"

In the event where the preferred query model is not supported, first supported SCP query model will be used in the following order:

1. Patient Root Information Model
2. Study Root Information Model
3. Patient/Study Only Information Model

If none of these models are supported by the SCP an error will be logged and association is closed.

4.2.2.3.2.4.1. Dataset Specific Conformance for Patient/Study Only QR Info. Model – C-FIND SOP Class C-FIND-SCU

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Detail regarding the Dataset Specific response behavior will be reported in this section.

Table 41: Supported Query Keys for Patient/Study Only Information Model

Patient/Study Only Information Model				
Attribute Name	Tag	VR	Type Of Matching	Comment
Q/R Patient level (Patient/Study Only)				
Patient's Name	0010,0010	PN	Single Value, Universal, Wildcard	For Wildcard see 4.2.2.3.2.3
Patient ID	0010,0020	LO	Single Value, Universal, Wildcard	
Q/R Study level (Patient/Study Only)				
Study Date	0008,0020	DA	Single Value, Range, Universal	
Study Time	0008,0030	TM	Single Value, Range, Universal	
Accession Number	0008,0050	SH	Single Value, Universal, Wildcard	
Modality in Study	0008,0061	CS	Multi Value	
Referring Physicians Name	0008,0090	PN	Single Value, Universal, Wildcard	
Study Description	0008,1030	LO	N/A	Optional Attribute Not used in Matching but returned existence whether or not part of the request
Patient's Name	0010,0010	PN	Single Value, Universal, Wildcard	For Wildcard see 4.2.2.3.2.3
Patient ID	0010,0020	LO	Single Value, Universal	
Study Instance UID	0020,000D	UI	Single Value, Universal, List Of UID	
Study ID	0020,0010	SH	Single Value, Universal, Wildcard	

Table 42: C-FIND-RSP Response Status for Patient/Study Only Information Model

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	Continue processing response
Pending	FF00	Current match is supplied	Process requests up to the set max number of responses and if the results exceed this number send A-RELEASE-RQ
	FF01	Matches are continuing but one or more Optional Keys were not supported.	
Cancel	FE00	Matching terminated due to Cancel Request	Stop waiting for response from the SCP and send the responses received before the cancel request to the IntelliSpace client.

Table 43: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged
SCP does not support any of the Query/Retrieve Information Models	The error is logged and the IntelliSpace client is notified of the failure and the association is closed

4.2.2.3.2.5. SOP Specific Conformance for Study Root QR Information Model – C-FIND SOP Class

The iQuery tool provides standard conformance to the DICOM Study Root Query/Retrieve Information Model C-FIND SOP class as an SCU with the following exceptions:

- Front end of iQuery tool is the IntelliSpace Client applications. IntelliSpace Client is conforming to the IHE Radiology SWF profile Image Display actor and is supporting the DICOM C-FIND Query with all the required matching keys at the levels: Study and Series. For more details see the Radiology Technical Framework, Vol 2, Table 4.14-1.
- Patient's Name key attribute matching type is implicitly converted from a single value matching to wild card matching by adding a wild card "*" character at the end of its value.
- Specific Character Set attribute (0008,0005) is set to "ISO_IR 100"

In the event where the preferred query model is not supported, first supported SCP query model will be used in the following order:

1. Patient Root Information Model
2. Study Root Information Model
3. Patient/Study Only Information Model

If none of these models are supported by the SCP an error will be logged and association is closed.

4.2.2.3.2.5.1. Dataset Specific Conformance for Study Root QR Information Model - C-FIND SOP Class C-FIND-SCU

Detail regarding the Dataset Specific response behavior will be reported in this section.

Table 44: Supported Query Keys for Study Root Information Model

Study Root Information Model				
Attribute Name	Tag	VR	Type Of Matching	Comment
Q/R Study level (Study Root)				
Study Date	0008,0020	DA	Single Value, Range, Universal	
Study Time	0008,0030	TM	Single Value, Range, Universal	
Accession Number	0008,0050	SH	Single Value, Universal, Wildcard	
Modality in Study	0008,0061	CS	Multi Value	
Referring Physicians Name	0008,0090	PN	Single Value, Universal, Wildcard	
Study Description	0008,1030	LO	N/A	Optional Attribute. Not used in Matching but returned existence whether or not part of the request
Patient's Name	0010,0010	PN	Single Value, Universal, Wildcard	For Wildcard see 4.2.2.3.2.3
Patient ID	0010,0020	LO	Single Value, Universal	
Study Instance UID	0020,000D	UI	Single Value, Universal	
Study ID	0020,0010	SH	Single Value, Universal, Wildcard	
Q/R Series level (Study Root)				
Modality	0008,0060	CS	Single Value, Universal	
Patient ID	0010,0020	LO	Single Value, Universal	
Body Part Examined	0018,0015	CS	Universal	
Study Instance UID	0020,000D	UI	Single Value, Universal	
Series Instance UID	0020,000E	UI	Single Value, Universal, List Of UID	
Series Number	0020,0011	IS	Single Value, Universal	
Performed Procedure Step Start Date	0040,0244	DA	Single Value, Range, Universal	
Performed Procedure Step Start Time	0040,0245	TM	Single Value, Range, Universal	
Request Attribute Sequence	0040,0275	SQ	N/A	Optional Attribute. Matching is performed up to 1 item level
> Scheduled Procedure Step ID	0040,0009	SH	Single Value, Universal, Wildcard	
> Requested Procedure ID	0040,1001	SH	Single Value, Universal, Wildcard	

Table 45: C-FIND-RSP Response Status for Patient Root Information Model

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	Continue processing response

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Service Status	Error Code	Further Meaning	Behavior
Pending	FF00	Current match is supplied	Process requests up to the set max number of responses and if the results exceed this number send A-RELEASE-RQ
	FF01	Matches are continuing but one or more Optional Keys were not supported	
Cancel	FE00	Matching terminated due to Cancel Request	Stop waiting for response from the SCP and send the responses received before the cancel request to the IntelliSpace client.

Table 46: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged
SCP does not support any of the Query/Retrieve Information Models	The error is logged and the IntelliSpace client is notified of the failure and the association is closed

4.2.2.3.3. (Real-World) Activity – C-MOVE as SCU

4.2.2.3.3.1. Description and Sequencing of Activities

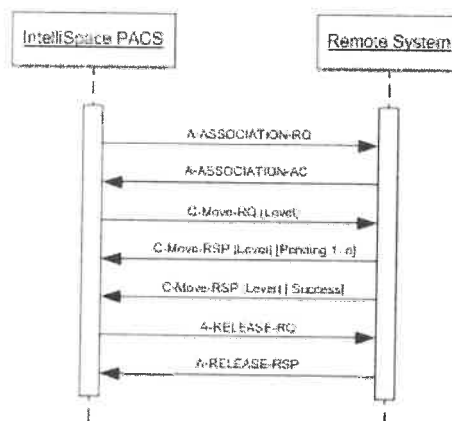


Figure 6: Sequence of C-Move as SCU

4.2.2.3.3.2. Proposed Presentation Contexts

The presentation contexts are defined in the next table.

Table 47: Proposed Presentation Contexts for (Real-World) Activity – C-MOVE as SCU

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Patient Root QR Information Model - C-MOVE SOP Class	1.2.840.10008.5.1.4.1.2.1.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Patient/Study Only QR Info. Model - C-MOVE SOP Class (Retired)	1.2.840.10008.5.1.4.1.2.3.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Study Root QR Information Model - C-MOVE SOP Class	1.2.840.10008.5.1.4.1.2.2.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.3.3.3. SOP Specific Conformance for Patient Root QR Information Model - C-MOVE SOP Class

The iQuery tool supports the DICOM Patient Root Query/Retrieve Information Model C-MOVE SOP class as an SCU.

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.3.3.3.1. Dataset Specific Conformance for Patient Root QR Information Model - C-MOVE SOP Class C-MOVE-SCU

Enclosed are the unique matching keys being used by IntelliSpace for the requested retrieval level, described in (0008,0052)

Table 48: Identifiers for C-MOVE Patient Root Information Model as SCU

Patient Root Information Model			
Attribute Name	Tag	VR	Comment
Query/Retrieve Level	0008,0052	CS	
Patient ID	0010,0020	LO	Q/R Patient level
Patient ID	0010,0020	LO	Q/R Study level
Study Instance UID	0020,000D	UI	
Patient ID	0010,0020	LO	Q/R Series level
Study Instance UID	0020,000D	UI	
Series Instance UID	0020,000E	UI	

Detail regarding the Dataset Specific response behavior is described in the table below.

Table 49: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	Log the event in iQuery tool
Failed	A701	C-MOVE failure refused cannot calculate	Log failed in iQuery tool in IntelliSpace Server and Close the association
	A702	C-MOVE failure refused cannot perform	
	A801	C-MOVE failure refused destination unknown	

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Service Status	Error Code	Further Meaning	Behavior
Warning	A900	C-MOVE failure invalid dataset	Log failed in iQuery tool in IntelliSpace Server and Close the association
	C001	C-MOVE failure unable to process	
	B000	One or more failures	
Pending	FF00	Current match is supplied	If none of the sub-operations have failed continue reading DICOM C-MOVE-RSP messages. If any of the sub-operations have failed submit C-CANCEL-MOVE-RQ to the remote application entity.
Cancel	FE00	C-MOVE cancel request received	Log failed in iQuery tool in IntelliSpace Server and Close the association

Table 50: Communication Failure Behavior

Exception	Behavior
Timeout	If the Q/R SCP does not respond within a configurable time period for a submitted C-MOVE request the C-CANCEL-MOVE-RQ is submitted and an error is logged in the iQuery tool. Association is closed and the request is retried for a configurable amount of time at a configurable duration
Association Aborted	The request is retried for a configurable amount of time at a configurable duration

4.2.2.3.3.4. SOP Specific Conformance for Patient/Study Only QR Info. Model - C-MOVE SOP Class (Retired)

The iQuery tool supports the DICOM Patient/Study only Query/Retrieve Information Model C-MOVE SOP class as an SCU.

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.3.3.4.1. Dataset Specific Conformance for Patient/Study Only QR Info. Model - C-MOVE SOP Class C-MOVE-SCU

Enclosed are the unique matching keys being used by IntelliSpace for the requested retrieval level, described in (0008,0052)

Table 51: Identifiers for MOVE Patient/Study Only Information Model as SCU

Patient/Study Only Information Model			
Attribute Name	Tag	VR	Comment
Query/Retrieve Level	0008,0052	CS	
Q/R Patient level			
Patient ID	0010,0020	LO	
Q/R Study level			
Patient ID	0010,0020	LO	
Study Instance UID	0020,000D	UI	

Detail regarding the Dataset Specific response behavior is described in the Table below.

Table 52: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	Log the event in iQuery tool
Failed	A701	C-MOVE failure refused cannot calculate	Log failed in iQuery tool in IntelliSpace Server and Close the association
	A702	C-MOVE failure refused cannot perform	
	A801	C-MOVE failure refused destination unknown	

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Service Status	Error Code	Further Meaning	Behavior
Warning	A900	C-MOVE failure invalid dataset	Log failed in iQuery tool in IntelliSpace Server and Close the association
	C001	C-MOVE failure unable to process	
	B000	One or more failures	
Pending	FF00	Current match is supplied	If none of the sub-operations have failed continue reading DICOM C-MOVE-RSP messages. If any of the sub-operations have failed submit C-CANCEL-MOVE-RQ to the remote application entity.
Cancel	FE00	C-MOVE cancel request received	Log failed in iQuery tool in IntelliSpace Server and Close the association

Table 53: Communication Failure Behavior

Exception	Behavior
Timeout	If the Q/R SCP does not respond within a configurable time period for a submitted C-MOVE request the C-CANCEL-MOVE-RQ is submitted and an error is logged in the iQuery tool. Association is closed and the request is retried for a configurable amount of time at a configurable duration
Association Aborted	The request is retried for a configurable amount of time at a configurable duration

4.2.2.3.3.5. SOP Specific Conformance for Study Root QR Information Model - C-MOVE SOP Class

The iQuery tool supports the DICOM Study Root Query/Retrieve Information Model C-MOVE SOP class as an SCU.

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.3.3.5.1. Dataset Specific Conformance for Study Root QR Information Model - C-MOVE SOP Class C-MOVE-SCU

Enclosed are the unique matching keys being used by IntelliSpace for the requested retrieval level, described in (0008,0052)

Table 54: Identifiers for MOVE Study Root Information Model as SCU

Study Root Information Model			
Attribute Name	Tag	VR	Comment
Query/Retrieve Level	0008,0052	CS	
Q/R Study level			
Patient ID	0010,0020	LO	
Study Instance UID	0020,000D	UI	
Q/R Series level			
Study Instance UID	0020,000D	UI	
Series Instance UID	0020,000E	UI	

Detail regarding the Dataset Specific response behavior is described in the table below.

Table 55: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	Log the event in iQuery tool
Failed	A701	C-MOVE failure refused cannot calculate	Log failed in iQuery tool in IntelliSpace Server and Close the association
	A702	C-MOVE failure refused cannot perform	
	A801	C-MOVE failure refused destination unknown	

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Service Status	Error Code	Further Meaning	Behavior
Warning	A900	C-MOVE failure invalid dataset	Log failed in iQuery tool in IntelliSpace Server and Close the association
	C001	C-MOVE failure unable to process	
	B000	One or more failures	
Pending	FF00	Current match is supplied	If none of the sub-operations have failed continue reading DICOM C-MOVE-RSP messages. If any of the sub-operations have failed submit C-CANCEL-MOVE-RQ to the remote application entity.
Cancel	FE00	C-MOVE cancel request received	Log failed in iQuery tool in IntelliSpace Server and Close the association

Table 56: Communication Failure Behavior

Exception	Behavior
Timeout	If the Q/R SCP does not respond within a configurable time period for a submitted C-MOVE request the C-CANCEL-MOVE-RQ is submitted and an error is logged in the iQuery tool. Association is closed and the request is retried for a configurable amount of time at a configurable duration
Association Aborted	The request is retried for a configurable amount of time at a configurable duration

4.2.2.3.4. (Real-World) Activity – Image Export

4.2.2.3.4.1. Description and Sequencing of Activities

IntelliSpace client applications use the iExport tool of the IntelliSpace DICOM Server to initiate and manage DICOM associations with remote Application Entities that support the DICOM Storage Service as a Service Class Provider. The iExport tool allows IntelliSpace client applications to export DICOM Objects through (C-STORE SCU).

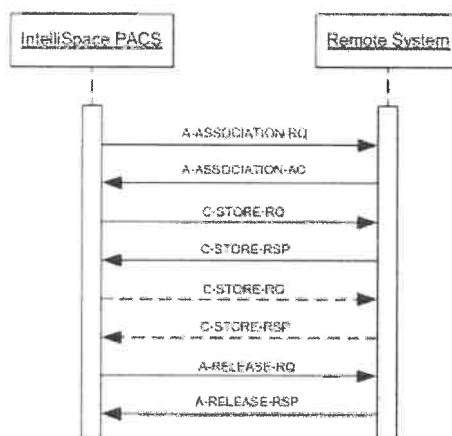


Figure 7: Sequence of C-Store as SCU

4.2.2.3.4.2. Proposed Presentation Contexts

The presentation contexts are defined in next table.

Table 57: Proposed Presentation Contexts for (Real-World) Activity – Image Export

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
12-Lead ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Ambulatory ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Basic Voice Audio Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.4.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Breast Tomosynthesis Image Storage	1.2.840.10008.5.1.4.1.1.13.1.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Color Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Computed Radiography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Digital Intra-oral X-Ray Image Storage - Pres. SOP	1.2.840.10008.5.1.4.1.1.1.3	JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90	SCU	None
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
Digital Intra-oral X-Ray Image Storage - Proc. SOP	1.2.840.10008.5.1.4.1.1.1.3.1	JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70	SCU	None
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Digital Mammography X-Ray Image Storage - Pres. SOP	1.2.840.10008.5.1.4.1.1.1.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Digital Mammography X-Ray Image Storage - Proc. SOP	1.2.840.10008.5.1.4.1.1.1.2.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		RLE Lossless	1.2.840.10008.1.2.5		
Digital X-Ray Image Storage - For Pres. SOP	1.2.840.10008.5.1.4.1.1.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		RLE Lossless	1.2.840.10008.1.2.5		
Digital X-Ray Image Storage - For Proc. SOP	1.2.840.10008.5.1.4.1.1.1.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		RLE Lossless	1.2.840.10008.1.2.5		
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		Implicit VR Little Endian	1.2.840.10008.1.2		
General ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Grayscale Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		Implicit VR Little Endian	1.2.840.10008.1.2		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Hemodynamic Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.2.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Multi-frame Grayscale Byte SC Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.2	JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCU	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
Multi-frame Grayscale Word SC Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.3	JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCU	None
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
Multi-frame Single Bit Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.1	RLE Lossless	1.2.840.10008.1.2.5	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Multi-frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50	SCU	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
Nuclear Medicine Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.5	RLE Lossless	1.2.840.10008.1.2.5	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Nuclear Medicine Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.20	JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCU	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
Positron Emission Tomography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.128	JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57	SCU	None
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Raw Data Storage SOP Class	1.2.840.10008.5.1.4.1.1.66	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
RT Beams Treatment Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.4	JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57	SCU	None
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Brachy Treatment Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.6	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Dose Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
RT Plan Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.5	RLE Lossless	1.2.840.10008.1.2.5	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
RT Structure Set Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
RT Treatment Summary Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
Standalone Curve Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.9	RLE Lossless	1.2.840.10008.1.2.5	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Standalone Modality LUT Storage (Retired)	1.2.840.10008.5.1.4.1.1.10	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Standalone Overlay Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.8	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Standalone PET Curve Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.129	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Standalone VOI LUT Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.11	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Stored Print Storage	1.2.840.10008.5.1.1.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Ultrasound Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.6	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Ultrasound Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.6.1	JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57	SCU	None
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
Ultrasound Multi-frame Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Ultrasound Multi-frame Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.3.1	JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCU	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
VL Endoscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.77.1.1	JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCU	None
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
VL Microscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.77.1.2	JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90	SCU	None
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70	SCU	None
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
X-Ray Angiographic Bi-Plane Image Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.12.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
X-Ray Angiographic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.1	JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCU	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
X-Ray Radiofluoroscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.2	JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCU	None
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		

Table 58: Proposed Presentation Contexts for (Real-World) Activity – Private Export

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
GE Nuclear Medicine private	1.2.840.113619.4.27	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
SOP Class		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum 3D Volume New Storage	1.3.46.670589.5.0.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum MR Synthetic Image Storage	1.3.46.670589.5.0.10	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum MR Cardio Analysis New Storage	1.3.46.670589.5.0.11.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum CX Synthetic Image Storage	1.3.46.670589.5.0.12	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum Perfusion Storage	1.3.46.670589.5.0.13	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum Perfusion Analysis Storage	1.3.46.670589.5.0.14	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum 3D Volume Object New Storage	1.3.46.670589.5.0.2.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum Surface New Storage	1.3.46.670589.5.0.3.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum MR Cardio New Storage	1.3.46.670589.5.0.8.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum CT Synthetic Image Storage	1.3.46.670589.5.0.9	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private X-Ray Image Storage	1.3.46.670589.2.3.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private Reconstructed X-ray Storage	1.3.46.670589.2.4.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private iE33 3D NEO Presentation State Subpage Storage	1.3.46.670589.2.5.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private EasyVision 3D Volume Object Storage	1.3.46.670589.5.0.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private Gyroscan MR Series Data	1.3.46.670589.11.0.0.12.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Philips Private MR Spectrum Storage	1.3.46.670589.11.0.0.12.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private EasyVision MR Cardio Storage	1.3.46.670589.5.0.8	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private EasyVision MR Cardio Analysis Storage	1.3.46.670589.5.0.11	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private MR Cardio Profile Image Storage	1.3.46.670589.5.0.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private EasyVision Surface Storage	1.3.46.670589.5.0.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private EasyVision Volume Storage	1.3.46.670589.5.0.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

Table 59: Proposed Presentation Contexts for (Real-World) Activity – Structured Report Export

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Basic Text SR SOP Class	1.2.840.10008.5.1.4.1.1.88.11	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Comprehensive SR SOP Class	1.2.840.10008.5.1.4.1.1.88.33	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Detail SR Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.88.3	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Enhanced SR SOP Class	1.2.840.10008.5.1.4.1.1.88.22	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	Implicit VR Little Endian	1.2.840.10008.1.2	SCU	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Mammography CAD SR SOP Class	1.2.840.10008.5.1.4.1.1.88.50	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.3.4.3. SOP Specific Conformance for Storage SOP Classes

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.3.4.3.1. Dataset Specific Conformance for C-STORE-RQ

Detail regarding the Dataset Specific response behavior is reported in this section.

This includes the dataset specific behavior, i.e. error codes, error and exception handling, time-outs, etc.

Additional information regarding the SOP Classes created in IntelliSpace such as the GSPS, Encapsulated PDF and Extended RAWDATA is described in Section 8.

Table 60: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Successful stored	C-STORE-RQ accepted
Failure	xxxx	Failed to store	Log the error in the IntelliSpace iExport tool log file and retry the C-STORE-RQ a configurable amount of times after a configurable period of time.

Table 61: Communication Failure Behavior

Exception	Behavior
Association aborted	Log the error in the IntelliSpace iExport tool log file and C-STORE-RQ is retried a configurable number of times at a configurable period of time.
Rejected, Image type is not supported by the remote Application Entity (Unacceptable service)	Log the error in the IntelliSpace iExport tool log file and continue on sending the next image in the series.

4.2.2.3.5. (Real-World) Activity – Storage Commitment Push Model as SCU

4.2.2.3.5.1. Description and Sequencing of Activities

The IntelliSpace supports synchronous and asynchronous mode for storage commitment SCU.

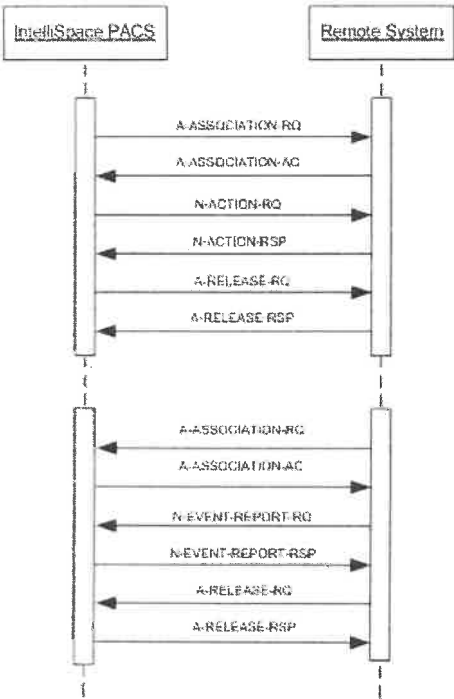


Figure 8: (Real-World) Activity – Asynchronous Storage Commitment as SCU

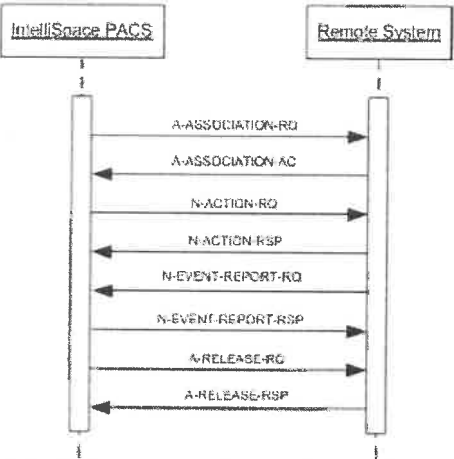


Figure 9: (Real-World) Activity – Synchronous Storage Commitment as SCU

4.2.2.3.5.2. Proposed Presentation Contexts

The presentation contexts are defined in the next table.

Table 62: Proposed Presentation Contexts for (Real-World) Activity – Storage Commitment Push Model AS SCU

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Storage Commitment Push Model SOP Class	1.2.840.10008.1.20.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.3.5.3. SOP Specific Conformance for SCU Storage Commitment Push Model SOP Class

The associated Activity with the Storage Commitment Push Model service is the communication by the STORAGE-SCU AE to peer AEs that it requested the SCP to commit to permanently store Composite SOP Instances that have been sent to it. It thus allows IntelliSpace to perform as a VNA Client and determine whether the VNA Server (Storage SCP) has taken responsibility for the archiving of specific SOP Instances so that IntelliSpace VNA Client (Storage SCU) can remove these SOP Classes from his system. The SCU use the N-ACTION primitive to request the SCP the safekeeping of a set of SOP Instances.

Upon receipt of a successful N-ACTION Response Status Code from the SCP, the SCU now knows that the SCP has received the N-ACTION request. Then the next step is to receive the N-EVENT-REPORT from the SCP, where it is reporting which SOP Classes have been successfully received and which have not successfully received.

IntelliSpace Storage SCU, can receive the N-EVENT-REPORT either on the same association it sent the N-ACTION, or it can receive it on a new association establish by the peer SCP.

The Storage SCU will wait for a certain time (wait time is configurable and it is defaulted to 60 seconds) to receive the Storage reply on the same association. When time out the SCU storage will close the association and will accept later a new association from the Storage SCP to receive the N-Event-Report with the Status of the Storage Commitment.

The STORAGE-SCU will release the storage of the objects that have been committed by the Storage SCP, while for the other objects that the SCP did not accepted the SCU Storage will resend those objects and then after it will re send the Storage commitment for the left objects that have not yet been committed.

The STORAGE-SCU AE does not support the optional Storage Media File-Set ID & UID attributes in the N-ACTION.

4.2.2.3.5.3.1. Dataset Specific Conformance for Storage Commitment Push Model SOP Class N-EVENT-REPORT-SCP

IntelliSpace server SCU will wait for the N_EVENT REPORT on the same N-ACCTION association for a certain time that is user configurable and is defaulted to 60 seconds, upon the receiving the N-ACTION-RQ reply. Then after the SCU will drop the N-ACTION Association and the SCP can send the N_EVENT-REPLASY, later on a separate association. When the N- EVENT-REPORT is received with the status of the instances that were committed or refused, then the SCU will remove/mark deleted all the instances committed. While for the instances that were not committed, if any, the SCU will make another try to resend those instances and then request the commitment. If second attempt fails completely or partially then a warning will be display on the User Interface screen.

This part of the section includes the dataset specific behavior, i.e. error codes, error and exception handling, time-outs, etc.

Table 63: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Successful store	Message was received successfully
Failed	0110	Operation failed	If failed to parse the message. Association is aborted.
	0119	Class instance Conflict	Class instance conflict. Association is aborted.
	0210	Duplicate	Duplicate invocation. Association is aborted.

Service Status	Error Code	Further Meaning	Behavior
	0115	Bad argument	Invalid argument value. Association is aborted.
	0212	Wrong argument	Mistyped argument. Association is aborted.
	0114	No argument	No such argument. Association is aborted.
	0113	Wrong event type	No such event type. Association is aborted.
	0118	Wrong SOP class	No such SOP class. Association is aborted.
	0112	Wrong SOP instance	No such SOP instance. Association is aborted.
	0213	Resource limitation	No resources available. Association is aborted.
	0211	Unrecognized operation	Such operation is not recognized. Association is aborted.

4.2.2.3.5.3.2. Dataset Specific Conformance for Storage Commitment Push Model SOP Class N-ACTION-SCU

The IntelliSpace server Storage SCU, initiate the storage commitment request through an N-ACTION-RQ Commitment Push. Specifying the transaction UID for synchronization with the SCP responses, and the referenced SOP instances that need to be committed. The Storage Media File-Set is not supported. Upon sending the N-ACTION-RQ, the SCU will wait for the SCP replay. If the replay is success then the SCU knows that the SCP received the Storage Commit request and it should expect to receive from the SCP the N-Event-Report with the status if the requested instances. If an error is being replay then the Storage Commit fails. The next table shows the Status codes for the N-Action-RQ replay.

The Storage AE will consider Storage Commitment failed if no N-EVENT-REPORT is received for a Transaction UID within a configurable time period after receiving a successful N-ACTION response (duration of applicability for a Transaction UID). The Storage Commitment SCU Retry is driven by the Configuration parameter for Storage Commitment Retry, which is defaulted with the value 5.

Table 64: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	The request for storage comment is considered successfully sent. A timer is started which will expire if no N-EVENT-REPORT for the Transaction UID is received within a configurable timeout period.
*	*	Any other status code.	The Association is aborted using A-ABORT and the request for storage comment is marked as failed. The status meaning is logged and reported to the user.

4.2.2.4. Association Acceptance Policy

The Application Entity may reject Association attempts as shown in the table below.

Table 65: Association Reject Reasons

Result	Source	Reason/Diagnosis	Explanation
1 - rejected-permanent	1 - DICOM UL service-user	1 - no-reason-given	Association is not established and details are logged.
		2 - application-context-name-not-supported	
		3 - calling-AE-title-not-recognized	
	2 - DICOM UL service-provider (ACSE related function)	7 - called-AE-title-not-recognized	
		1 - no-reason-given	
		2 - protocol-version-not-supported	
	3 - DICOM UL service-provider(Presentation)	1 - temporary-congestion	

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Result	Source	Reason/Diagnosis	Explanation
2 - rejected-transient	related function)	2 - Local-limit-exceeded	
	1 - DICOM UL service-user	1 - no-reason-given	
		2 - application-context-name-not-supported	
		3 - calling-AE-title-not-recognized	
		7 - called-AE-title-not-recognized	
	2 - DICOM UL service-provider (ACSE related function)	1 - no-reason-given	
		2 - protocol-version-not-supported	
	3 - DICOM UL service-provider (Presentation related function)	1 - temporary congestion	
		2 - local-limit-exceeded	

The behavior of the AE for sending an association abort is summarized in next table

Table 66: Association Abort Policies

Source	Reason/Diagnosis	Behavior
0 - DICOM UL service-user (initiated abort)	0 - reason-not-specified	When received, terminates the connection and logs the event.
2 - DICOM UL service-provider (initiated abort)	0 - reason-not-specified	
	1 - unrecognized-PDU	
	2 - unexpected-PDU	
	4 - unrecognized-PDU parameter	
	5 - unexpected-PDU parameter	
	6 - invalid-PDU-parameter value	

4.2.2.4.1. (Real-World) Activity – Verification as SCP

4.2.2.4.1.1. Description and Sequencing of Activities

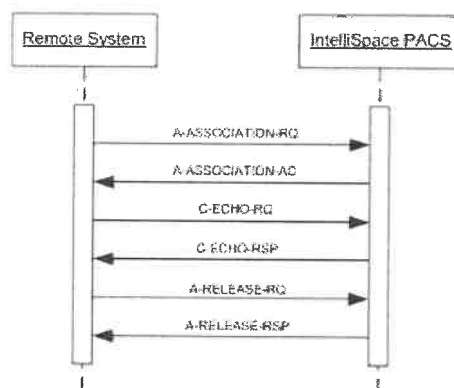


Figure 10: (Real-World) Activity – C-ECHO as SCP

4.2.2.4.1.2. Accepted Presentation Contexts

The presentation contexts are defined in next table.

Table 67: Acceptable Presentation Contexts for (Real-World) Activity – Verification as SCP

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Verification SOP Class	1.2.840.10008.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.4.1.3. SOP Specific Conformance for Verification SOP Class

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.4.1.3.1. Dataset Specific Conformance for Verification C-ECHO SCP

This part of the section includes the dataset specific behavior, i.e. error codes, error and exception handling, time-outs, etc.

Table 68: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	C-Echo request accepted

4.2.2.4.2. (Real-World) Activity – Modality Performed Procedure Step as SCP

4.2.2.4.2.1. Description and Sequencing of Activities

The IntelliSpace DICOM Server will accept DICOM Modality Performed Procedure Step association request that are initiated by remote DICOM entities. The IntelliSpace DICOM Server will process the incoming MPPS messages and forward them to configured DICOM clients.

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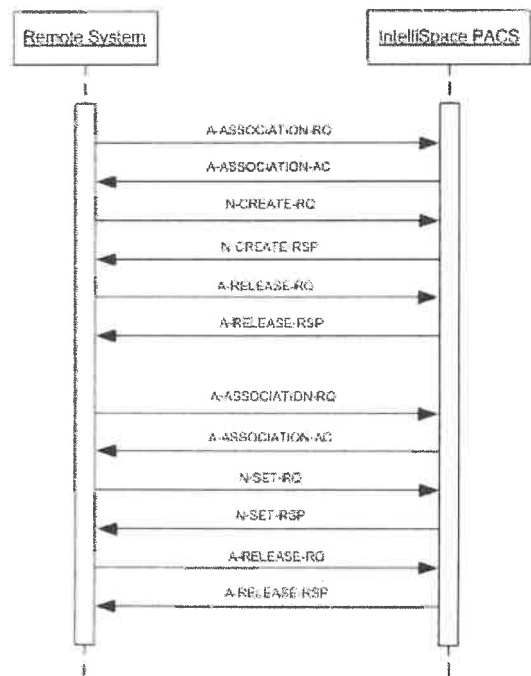


Figure 11: (Real-World) Activity – MPPS as SCP

4.2.2.4.2.2. Accepted Presentation Contexts

The presentation contexts are defined in next table.

Table 69: Acceptable Presentation Contexts for (Real-World) Activity – Modality Performed Procedure Step as SCP

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Modality Performed Procedure Step SOP Class	1.2.840.10008.3.1.2.3.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.4.2.3. SOP Specific Conformance for Modality Performed Procedure Step SOP Class

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.4.2.3.1. Dataset Specific Conformance for Modality Performed Procedure Step N-CREATE SCP

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The IntelliSpace Server MPPS SCP expects the following attributes to be available in the N-CREATE message for it to be considered valid. If the attribute is missing fail status is returned.

Table 70: Attributes for for Modality Performed Procedure Step N-CREATE SCP

Tag	Name
[0000,0002]	Affected SOP Class UID
[0000,1000]	Affected SOP Instance UID
[0008,0050]	Accession Number
[0008,0060]	Modality
[0010,0010]	Patient Name
[0010,0020]	Patient ID
[0010,0030]	Patient Birth Date
[0020,000D]	Study Instance UID
[0020,0010]	Study ID
[0040,0009]	Schedule Procedure Step ID
[0040,0241]	Performed Station AE Title
[0040,0244]	Performed Procedure Step Start Date
[0040,0245]	Performed Procedure Step Start Time
[0040,0250]	Performed Procedure Step End Date
[0040,0251]	Performed Procedure Step End Time
[0040,0252]	Performed Procedure Step Status
[0040,0253]	Performed Procedure Step ID
[0040,0270]	Scheduled Step Attributes Sequence
[0040,1001]	Requested Procedure ID

Table 71: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	The N-CREATE-RQ is forwarded to the configured DICOM MPPS SCP
Failed	0121	Missing attribute value	The N-CREATE command is not forwarded to the configured DICOM MPPS SCP. Error is logged in the IntelliSpace Server.

Table 72: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged

4.2.2.4.2.3.2. Dataset Specific Conformance for Modality Performed Procedure Step N-SET SCP

The IntelliSpace Server MPPS SCP expects the following attributes to be available in the N-SET message for it to be considered valid. If the attribute is missing fail status is returned.

Table 73: Attributes for for Modality Performed Procedure Step N-SET SCP

Tag	Name
[0000,1000]	Affected SOP Instance UID
[0000,1001]	Requested SOP Instance UID

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[0040,0250]	Performed Procedure Step End Date
[0040,0251]	Performed Procedure Step End Time
[0040,0252]	Performed Procedure Step Status

Table 74: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Success	The N-SET-RQ is forwarded to the configured DICOM MPPS SCP
Failed	0121	Missing attribute value	The N-SET-RQ command is not forwarded to the configured DICOM MPPS SCP. Error is logged in the IntelliSpace Server.

Table 75: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged

4.2.2.4.3. (Real-World) Activity – C-FIND as SCP

4.2.2.4.3.1. Description and Sequencing of Activities

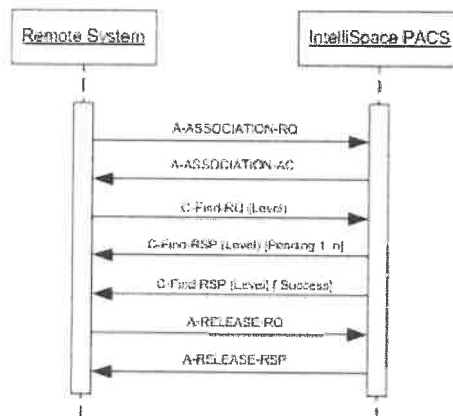


Figure 12: (Real-World) Activity – C-Find as SCP

4.2.2.4.3.2. Accepted Presentation Contexts

The presentation contexts are defined in the next table.

Table 76: Acceptable Presentation Contexts for (Real-World) Activity – C-FIND as SCP

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Patient Root QR Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.1.2.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Patient/Study Only QR Info. Model - C-FIND SOP Class (Retired)	1.2.840.10008.5.1.4.1.2.3.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Study Root QR Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.1.2.2.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.4.3.3. SOP Specific Conformance for Patient Root QR Information Model - C-FIND SOP Class

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.4.3.3.1. Dataset Specific Conformance for Patient Root QR Information Model - C-FIND SOP Class C-FIND-SCP

The supported Query keys and the DICOM command communication behavior are shown in the following tables. The standard as well as the specific status codes and their corresponding behavior are also specified.

Table 77: Requested Query Keys for Patient Root Information Model

Patient Root Information Model				
Attribute Name	Tag	VR	Type Of Matching	Comment
Q/R Patient level (Patient Root)				
Patient's Name	0010,0010	PN	Single Value, Universal, Wildcard	
Patient ID	0010,0020	LO	Single Value, Wildcard	
Patient's Birth Date	0010,0030	DA	Single Value, Range	Optional Attribute. Returned existence whether or not part of the request
Patient's Sex	0010,0040	CS	Single Value, Wildcard	Optional Attribute. Returned existence whether or not part of the request
Q/R Study level (Patient Root)				
Study Date	0008,0020	DA	Single Value, Range, Universal	
Study Time	0008,0030	TM	Single Value, Range, Universal	
Accession Number	0008,0050	SH	Single Value, Universal, Wildcard	
Referring Physicians Name	0008,0090	PN	Single Value, Universal, Wildcard	Optional Attribute
Study Description	0008,1030	LO	N/A	Optional Attribute. Not used in Matching but returned existence whether or not part of the request
Patient's Name	0010,0010	PN	Single Value, Universal,	For Wildcard see 4.2.2.3.2.3

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				Wildcard
Patient ID	0010,0020	LO	Single Value	
Study Instance UID	0020,000D	UI	Single Value, Universal, List of UID	
Study ID	0020,0010	SH	Single Value, Universal, Wildcard	
Number of Study Related Series	0020,1206	IS	Universal	Optional Attribute Not used in Matching but returned existence.
Number of Study Related Instances	0020,1208	IS	Universal	Optional Attribute Not used in Matching but returned existence.
Modalities in Study	0008, 0061	CS	Single Value, Universal	Optional Attribute
Q/R Series level (Patient Root)				
Modality	0008,0060	CS	Single Value, Universal	
Patient ID	0010,0020	LO	Single Value	
Body Part Examined	0018,0015	CS	Universal	
Study Instance UID	0020,000D	UI	Single Value	
Series Instance UID	0020,000E	UI	Single Value, Universal, List Of UID	
Series Number	0020,0011	IS	Single Value, Universal	
Number of Series Related Images	0020,1209	IS	Universal	Optional Attribute Not used in Matching but returned existence.
Performed Procedure Step Start Date	0040,0244	DA	Single Value, Range, Universal	
Performed Procedure Step Start Time	0040,0245	TM	Single Value, Range, Universal	
Request Attribute Sequence	0040,0275	SQ	N/A	Optional Attribute Matching is performed up to 1 item level
>Requested Procedure ID	0040,1001	SH	Single Value, Universal, Wildcard	
>Scheduled Procedure Step ID	0040,0009	SH	Single Value, Universal, Wildcard	
Q/R Image level (Patient Root)				
Series Instance UID	0020,000E	UI	Single Value	
Image Type	0008,0008	CS	Universal	
SOP Instance UID	0008,0018	UI	Single Value, Universal, List Of UID	
Patient ID	0010,0020	LO	Single Value	
Study Instance UID	0020,000D	UI	Single Value	
Instance Number	0020,0013	IS	Single Value, Universal	

Table 78: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Matching is complete	A response is sent with this status code.
Failed	A700	Out of resources	Logged and released association.
	A900	Invalid dataset	A response is sent with this status code. The reason is logged in the file
	C000	Unable to process	A response is sent with this status code. The reason is logged in the file
	C001	Unable to process due to missing unique tags	A response is sent with this status code. The reason is logged in the file
Pending	FF00	Current match is supplied	Matches are continuing; Current match is supplied.

Contractor to initial.....

Service Status	Error Code	Further Meaning	Behavior
Cancel	FE00	Matching terminated due to Cancel Request	No more C-FIND Pending responses will be sent and a final response is sent with this status code. Cancel Request is logged.

Table 79: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged

4.2.2.4.3.4. SOP Specific Conformance for Patient/Study Only QR Info. Model - C-FIND SOP Class (Retired) - SCP

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.4.3.4.1. Dataset Specific Conformance for Patient/Study Only QR Info. Model - C-FIND SOP Class C-FIND-SCP

The supported Query keys and the DICOM command communication behavior are shown in the following tables. The standard as well as the specific status codes and their corresponding behavior are also specified.

Table 80: Requested Query Keys for Patient/Study Only Information Model

Patient/Study Only Information Model				
Attribute Name	Tag	VR	Type Of Matching	Comment
Q/R Patient level (Patient/Study Only)				
Patient's Name	0010,0010	PN	Single Value, Universal, Wildcard	
Patient ID	0010,0020	LO	Single Value, Wildcard	
Patient's Birth Date	0010,0030	DA	Single Value, Range	Optional Attribute. Returned existence whether or not part of the request
Patient's Sex	0010,0040	CS	Single Value, Wildcard	Optional Attribute. Returned existence whether or not part of the request
Q/R Study level (Patient/Study Only)				
Study Date	0008,0020	DA	Single Value, Range, Universal	
Study Time	0008,0030	TM	Single Value, Range, Universal	
Accession Number	0008,0050	SH	Single Value, Universal, Wildcard	
Modalities in Study	0008,0061	CS	Single Value, Universal	
Referring Physician's Name	0008,0090	PN	Single Value, Universal, Wildcard	Optional Attribute
Study Description	0008,1030	LO	N/A	Optional Attribute. Not used in Matching but returned existence whether or not part of the request
Patient's Name	0010,0010	PN	Single Value, Universal, Wildcard	For Wildcard see 4.2.2.3.2.3
Patient ID	0010,0020	LO	Single Value	
Study Instance UID	0020,000D	UI	Single Value, Universal,	

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Study ID	0020,0010	SH	List Of UID Single Value, Universal, Wildcard	
Number of Study Related Series	0020,1206	IS	Universal	Optional Attribute Not used in Matching but returned existence.
Number of Study Related Instances	0020,1208	IS	Universal	Optional Attribute Not used in Matching but returned existence.

Table 81: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Matching is complete	A response is sent with this status code.
Failure	A700	Out of resources	Logged and released association.
	A900	Invalid dataset	A response is sent with this status code. The reason is logged in the file
	C000	Unable to process	A response is sent with this status code. The reason is logged in the file
	C001	Unable to process due to missing unique tags	A response is sent with this status code. The reason is logged in the file
Pending	FF00	Current match is supplied	Matches are continuing; Current match is supplied.
Cancel	FE00	Matching terminated due to Cancel Request	No more C-FIND Pending responses will be sent and a final response is sent with this status code. Cancel Request is logged.

Table 82: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged

4.2.2.4.3.5. SOP Specific Conformance for Study Root QR Information Model - C-FIND SOP Class

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.4.3.5.1. Dataset Specific Conformance for Study Root QR Information Model - C-FIND SOP Class C-FIND-SCP

The supported Query keys and the DICOM command communication behavior are shown in the following tables. The standard as well as the specific status codes and their corresponding behavior are also specified.

Table 83: Requested Query Keys for Study Root Information Model

Study Root Information Model				
Attribute Name	Tag	VR	Type Of Matching	Comment
Q/R Study level (Study Root)				
Study Date	0008,0020	DA	Single Value, Range, Universal	
Study Time	0008,0030	TM	Single Value, Range, Universal	
Accession Number	0008,0050	SH	Single Value, Universal, Wildcard	
Modalities in Study	0008,0061	CS	Single Value, Universal	Optional Attribute

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Referring Physician's Name	0008,0090	PN	Single Value, Universal, Wildcard	Optional Attribute
Study Description	0008,1030	LO	N/A	Optional Attribute. Not used in Matching but returned existence whether or not part of the request
Patient's Name	0010,0010	PN	Single Value, Universal, Wildcard	
Patient ID	0010,0020	LO	Single Value, Wildcard	
Patient's Birth Date	0010,0030	DA	Single Value, Range	Optional Attribute. Returned existence whether or not part of the request
Patient's Sex	0010,0040	CS	Single Value, Wildcard	Optional Attribute. Returned existence whether or not part of the request
Study Instance UID	0020,000D	UI	Single Value, Universal, List Of UID	
Study ID	0020,0010	SH	Single Value, Universal, Wildcard	
Number of Study Related Instances	0020,1208	IS	Universal	Optional Attribute Not used in Matching but returned existence.
Number of Study Related Series	0020, 1206	IS	Universal	Optional Attribute Not used in Matching but returned existence.
Q/R Series level (Study Root)				
Modality	0008,0060	CS	Single Value, Universal	
Body Part Examined	0018,0015	CS	Universal	
Study Instance UID	0020,000D	UI	Single Value	
Series Instance UID	0020,000E	UI	Single Value, Universal, List Of UID	
Series Number	0020,0011	IS	Single Value, Universal	
Number of Series Related Images	0020,1209	IS	Universal	Optional Attribute Not used in Matching but returned existence.
Performed Procedure Step Start Date	0040,0244	DA	Single Value, Range, Universal	
Performed Procedure Step Start Time	0040,0245	TM	Single Value, Range, Universal	
Request Attribute Sequence	0040,0275	SQ	N/A	Optional Attribute Matching is performed up to 1 item level
>Scheduled Procedure Step ID	0040,0009	SH	Single Value, Universal, Wildcard	
>Requested Procedure ID	0040,1001	SH	Single Value, Universal, Wildcard	
Q/R Image level (Study Root)				
Image Type	0008,0008	CS	Universal	
SOP Instance UID	0008,0018	UI	Single Value, Universal, List Of UID	
Study Instance UID	0020,000D	UI	Single Value	
Series Instance UID	0020,000E	UI	Single Value	
Instance Number	0020,0013	IS	Single Value, Universal	

Table 84: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Matching is complete	A response is sent with this status code.

Service Status	Error Code	Further Meaning	Behavior
Failure	A700	Out of resources	Logged and released association.
	A900	Invalid dataset	A response is sent with this status code. The reason is logged in the file
	C000	Unable to process	A response is sent with this status code. The reason is logged in the file
	C001	Unable to process due to missing unique tags	A response is sent with this status code. The reason is logged in the file
Pending	FF00	Current match is supplied	Matches are continuing; Current match is supplied.
Cancel	FE00	Matching terminated due to Cancel Request	No more C-FIND Pending responses will be sent and a final response is sent with this status code. Cancel Request is logged.

Table 85: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged

4.2.2.4.4. (Real-World) Activity – C-MOVE as SCP

4.2.2.4.4.1. Description and Sequencing of Activities

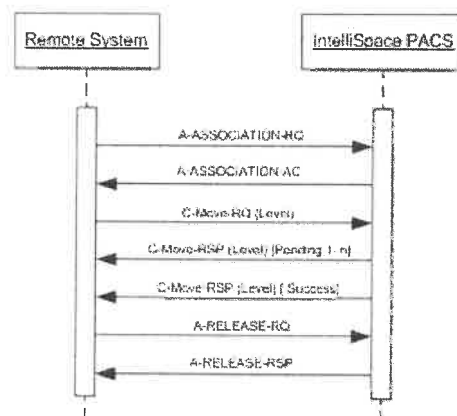


Figure 13: (Real-World) Activity – C-Move as SCP

4.2.2.4.4.2. Accepted Presentation Contexts

The presentation contexts are defined in the next table.

Table 86: Acceptable Presentation Contexts for (Real-World) Activity – C-MOVE as SCP

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Patient Root QR Information Model - C-MOVE SOP Class	1.2.840.10008.5.1.4.1.2.1.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Patient/Study Only QR Info. Model - C-MOVE SOP Class (Retired)	1.2.840.10008.5.1.4.1.2.3.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Study Root QR Information Model - C-MOVE SOP Class	1.2.840.10008.5.1.4.1.2.2.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.4.4.3. SOP Specific Conformance for Patient Root QR Information Model - C-MOVE SOP Class

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.4.4.3.1. Dataset Specific Conformance for Patient Root QR Information Model - C-MOVE SOP Class C-MOVE-SCP

The supported C-MOVE request keys and the DICOM command communication behavior are shown in the following tables. The standard as well as the specific status codes and their corresponding behavior are also specified.

Table 87: Identifiers for C-MOVE Patient Root Information Model as SCP

Patient Root Information Model			
Attribute Name	Tag	VR	Comment
Q/R Patient level			
Patient ID	0010,0020	LO	
Q/R Study level (Patient Root)			
Patient ID	0010,0020	LO	
Study Instance UID	0020,000D	UI	
Q/R Series level (Patient Root)			
Patient ID	0010,0020	LO	
Study Instance UID	0020,000D	UI	
Series Instance UID	0020,000E	UI	
Q/R Image level (Patient Root)			
SOP Instance UID	0008,0018	UI	
Patient ID	0010,0020	LO	
Study Instance UID	0020,000D	UI	
Series Instance UID	0020,000E	UI	

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Table 88: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Sub-operations complete – No Failures	A response with this status code is sent.
Failed	A700	Out of resources	Logged and released association.
	A900	Invalid dataset	A response with this status code is sent. The reason is logged in the file
	C001	Unable to process	A response with this status code is sent. The reason is logged in the file
Warning	B000	Sub-operations complete – 1 or more failures	A response with this status code is sent when 1 or more export jobs fail
Pending	FF00	Sub-operations are continuing	A response with this status code is sent.
Cancel	FE00	Sub-operations are terminated due to cancel Request	A response with this status code is sent. Cancel request is sent to export work item. The reason is logged in the file.

Table 89: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged

4.2.2.4.4.4. SOP Specific Conformance for Patient/Study Only QR Info. Model - C-MOVE SOP Class (Retired)

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.4.4.4.1. Dataset Specific Conformance for Patient/Study Only QR Info. Model - C-MOVE SOP Class C-MOVE-SCP

The supported C-MOVE request keys and the DICOM command communication behavior are shown in the following tables. The standard as well as the specific status codes and their corresponding behavior are also specified.

Table 90: Identifiers for C-MOVE Patient/Study Only Information Model as SCP

Attribute Name	Patient/Study Only Information Model		
	Tag	VR	Comment
Q/R Patient level (Patient/Study Only)			
Patient ID	0010,0020	LO	
Q/R Study level (Patient/Study Only)			
Patient ID	0010,0020	LO	
Study Instance UID	0020,000D	UI	

Contractor to initial.....

Table 91: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Sub-operations complete – No Failures	A response with this status code is sent.
Failed	A700	Out of resources	Logged and released association.
	A900	Invalid dataset	A response with this status code is sent. The reason is logged in the file.
	C001	Unable to process	A response with this status code is sent. The reason is logged in the file.
Warning	B000	Sub-operations complete – 1 or more failures	A response with this status code is sent when 1 or more export jobs fail
Pending	FF00	Sub-operations are continuing	A response with this status code is sent.
Cancel	FE00	Sub-operations are terminated due to cancel Request	A response with this status code is sent. Cancel request is sent to export work item. The reason is logged in the file.

Table 92: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged

4.2.2.4.4.5. SOP Specific Conformance for Study Root QR Information Model - C-MOVE SOP Class

This section and sub-section include the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.2.4.4.5.1. Dataset Specific Conformance for Study Root QR Information Model - C-MOVE SOP Class C-MOVE-SCP

The supported C-MOVE request keys and the DICOM command communication behavior are shown in the following tables. The standard as well as the specific status codes and their corresponding behavior are also specified.

Table 93: Identifiers for C-MOVE Study Root Information Model as SCP

Study Root Information Model			
Attribute Name	Tag	VR	Comment
Q/R Study level (Study Root)			
Patient ID	0010,0020	LO	
Study Instance UID	0020,000D	UI	
Q/R Series level (Study Root)			
Study Instance UID	0020,000D	UI	
Series Instance UID	0020,000E	UI	
Q/R Image level (Study Root)			
SOP Instance UID	0008,0018	UI	
Study Instance UID	0020,000D	UI	
Series Instance UID	0020,000E	UI	

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Table 94: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Sub-operations complete – No Failures	A response with this status code is sent.
Failed	A700	Out of resources	Logged and released association.
	A900	Invalid dataset	A response with this status code is sent. The reason is logged in the file
	C001	Unable to process	A response with this status code is sent. The reason is logged in the file
Warning	B000	Sub-operations complete – 1 or more failures	A response with this status code is sent when 1 or more export jobs fail
Pending	FF00	Sub-operations are continuing	A response with this status code is sent.
Cancel	FE00	Sub-operations are terminated due to cancel Request	A response with this status code is sent. Cancel request is sent to export work item. The reason is logged in the file.

Table 95: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged

4.2.2.4.5. (Real-World) Activity – Image Import

4.2.2.4.5.1. Description and Sequencing of Activities

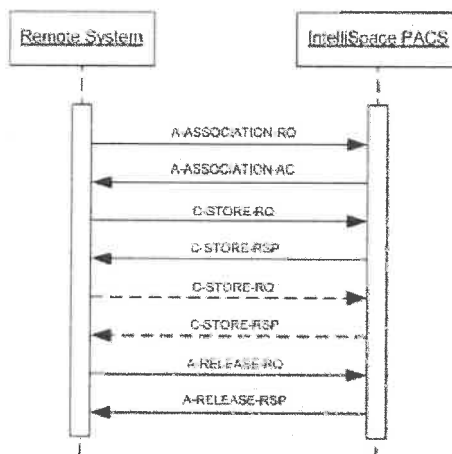


Figure 14: (Real-World) Activity – C-Store as SCP

4.2.2.4.5.2. Accepted Presentation Contexts

The presentation contexts are defined in next table.

Table 96: Acceptable Presentation Contexts for (Real-World) Activity – Image Import

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
12-Lead ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Ambulatory ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Basic Voice Audio Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.4.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Breast Tomosynthesis Image Storage	1.2.840.10008.5.1.4.1.1.13.1.3	JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCP	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Color Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.2	JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCP	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Computed Radiography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
CT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.2	JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57	SCP	None
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
Digital Intra-oral X-Ray Image Storage - Pres. SOP	1.2.840.10008.5.1.4.1.1.1.3	Explicit VR Little Endian	1.2.840.10008.1.2.1	SCP	None
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
Digital Intra-oral X-Ray Image Storage - Proc. SOP	1.2.840.10008.5.1.4.1.1.1.3.1	JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
Digital Mammography X-Ray Image Storage - Pres. SOP	1.2.840.10008.5.1.4.1.1.1.2	RLE Lossless	1.2.840.10008.1.2.5	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Digital Mammography X-Ray Image Storage - Proc. SOP	1.2.840.10008.5.1.4.1.1.1.2.1	JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90	SCP	None
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
Digital X-Ray Image Storage - For Pres. SOP	1.2.840.10008.5.1.4.1.1.1.1	JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70	SCP	None
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Digital X-Ray Image Storage - For Proc. SOP	1.2.840.10008.5.1.4.1.1.1.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
General ECG Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.1.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Grayscale Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
Hemodynamic Waveform Storage SOP Class	1.2.840.10008.5.1.4.1.1.9.2.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
MR Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.4	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
Multi-frame Grayscale Byte SC Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Multi-frame Grayscale Word SC Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
Multi-frame Single Bit Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7.1	Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
Multi-frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
Nuclear Medicine Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.5	Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Nuclear Medicine Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.20	JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57	SCP	None
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
Positron Emission Tomography Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.128	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Raw Data Storage SOP Class	1.2.840.10008.5.1.4.1.1.66	JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91	SCP	None
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
RT Beams Treatment Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.4	JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51	SCP	None
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
RT Brachy Treatment Record	1.2.840.10008.5.1.4.1.1.481.6	RLE Lossless	1.2.840.10008.1.2.5	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Storage SOP Class		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
RT Dose Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
RT Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
RT Plan Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.5	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
RT Structure Set Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
RT Treatment Summary Record Storage SOP Class	1.2.840.10008.5.1.4.1.1.481.7	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Secondary Capture Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.7	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
Standalone Curve Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.9	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Standalone Modality LUT Storage (Retired)	1.2.840.10008.5.1.4.1.1.10	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Standalone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
SOP Class (Retired)		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Standalone PET Curve Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.129	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Standalone VOI LUT Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.11	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Ultrasound Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.6	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
Ultrasound Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.6.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
Ultrasound Multi-frame Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
Ultrasound Multi-frame Image	1.2.840.10008.5.1.4.1.1.3.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Storage SOP Class		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
VL Endoscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.77.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
VL Microscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.77.1.2	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
X-Ray Angiographic Bi-Plane Image Storage SOP Class (Retired)	1.2.840.10008.5.1.4.1.1.12.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
X-Ray Angiographic Image	1.2.840.10008.5.1.4.1.1.12.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Storage SOP Class		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
		JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50		
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
		JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91		
		JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90		
X-Ray Radiofluoroscopic Image Storage SOP Class	1.2.840.10008.5.1.4.1.1.12.2	JPEG Baseline (Process 1)	1.2.840.10008.1.2.4.50	SCP	None
		JPEG Extended (Process 2 & 4)	1.2.840.10008.1.2.4.51		
		JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57		
		JPEG Lossless, Non-Hierarchical, FOP (Process 14)	1.2.840.10008.1.2.4.70		
		RLE Lossless	1.2.840.10008.1.2.5		

Table 97: Proposed Presentation Contexts for (Real-World) Activity – Private Import

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
GE Nuclear Medicine private SOP Class	1.2.840.113619.4.27	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum 3D Volume New Storage	1.3.46.670589.5.0.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum MR Synthetic Image Storage	1.3.46.670589.5.0.10	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum MR Cardio Analysis New Storage	1.3.46.670589.5.0.11.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private ViewForum CX Synthetic Image Storage	1.3.46.670589.5.0.12	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Philips Private ViewForum Perfusion Storage	1.3.46.670589.5.0.13	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private ViewForum Perfusion Analysis Storage	1.3.46.670589.5.0.14	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private ViewForum 3D Volume Object New Storage	1.3.46.670589.5.0.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private ViewForum Surface New Storage	1.3.46.670589.5.0.3.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private ViewForum MR Cardio New Storage	1.3.46.670589.5.0.8.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private ViewForum CT Synthetic Image Storage	1.3.46.670589.5.0.9	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private X-Ray Image Storage	1.3.46.670589.2.3.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private Reconstructed X-ray Storage	1.3.46.670589.2.4.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private iE33 3D NEO Presentation State Subpage Storage	1.3.46.670589.2.5.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private EasyVision 3D Volume Object Storage	1.3.46.670589.5.0.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private Gyroscan MR Series Data	1.3.46.670589.11.0.0.12.2	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private MR Spectrum Storage	1.3.46.670589.11.0.0.12.1	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private EasyVision MR Cardio Storage	1.3.46.670589.5.0.8	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private EasyVision MR Cardio Analysis Storage	1.3.46.670589.5.0.11	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
Philips Private MR Cardio Profile Image Storage	1.3.46.670589.5.0.7	Implicit VR Little Endian	1.2.840.10008.1.2	SCP	None
		Explicit VR Big Endian	1.2.840.10008.1.2.2		
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

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Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Ext. Neg.
Name	UID	Name List	UID List		
Philips Private EasyVision Surface Storage	1.3.46.670589.5.0.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Philips Private EasyVision Volume Storage	1.3.46.670589.5.0.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

Table 98: Acceptable Presentation Contexts for (Real-World) Activity – Structured Report Import

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Basic Text SR SOP Class	1.2.840.10008.5.1.4.1.1.88.11	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Chest CAD SR	1.2.840.10008.5.1.4.1.1.88.65	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Comprehensive SR SOP Class	1.2.840.10008.5.1.4.1.1.88.33	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Detail SR Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.88.3	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Enhanced SR SOP Class	1.2.840.10008.5.1.4.1.1.88.22	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Key Object Selection Document	1.2.840.10008.5.1.4.1.1.88.59	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		
Mammography CAD SR SOP Class	1.2.840.10008.5.1.4.1.1.88.50	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.4.5.3. SOP Specific Conformance for Storage SOP Classes

The C-Store SCP will receive any DICOM objects (images and non-image objects) transmitted in the open associated provided that the correct presentation context is used. If the objects are received successfully, they are stored and registered in the IntelliSpace DICOM server local database; from there they can be loaded (and viewed) via IntelliSpace Radiology Viewer or IntelliSpace Enterprise Viewer. Objects are stored in the local database as files.

If the objects are not received successfully then they are placed in the error folder.

Depending upon the system configuration, the IntelliSpace DICOM Server application either performs "lifetime" persistence for the Images received or manages an auto-deleted cache of the most recently active image studies. In the cache storage mode, images

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received will be deleted when the server disk space becomes full. Deletion will be performed based on a "least accessed patient" strategy. If an IntelliSpace client has accessed any part of a patient's studies, all images associated with that patient have a lower probability of being deleted.

4.2.2.4.5.3.1. Dataset Specific Conformance for C-STORE-RSP

The IntelliSpace DICOM Server conforms to the SOPs of the Storage Service Class. No elements are discarded, but the following demographic elements may be modified:

Table 99: Attributes that may be modified by the IntelliSpace DICOM Server

Attribute Name	Tag
Accession Number	(0008, 0050)
Referring Physician	(0008, 0090)
Procedure Sequence	(0008, 1032)
> Code Value	(0008, 0100)
> Code Meaning	(0008, 0104)
Patient Name	(0010, 0010)
Patient ID	(0010, 0020)
Patient Birth Date	(0010, 0030)
Patient Sex	(0010, 0040)
Requesting Physician	(0032, 1032)

Modification of data elements is initiated either by processing of manual edits initiated by end users of the system or automatic edits initiated by information received from ADT and Order Entry systems (HIS/RIS).

Table 100: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Successful stored	Server succeeds with store operation and required DICOM was stored.
Failure	A700	Refused: Out of Resources	There is insufficient storage in the server. Caller should try again later. Critical error is logged in server Log file.

4.2.2.4.6. (Real-World) Activity – Storage Commitment Push Model AS SCP

4.2.2.4.6.1. Description and Sequencing of Activities

The IntelliSpace supports synchronous and asynchronous mode for storage commitment SCP.

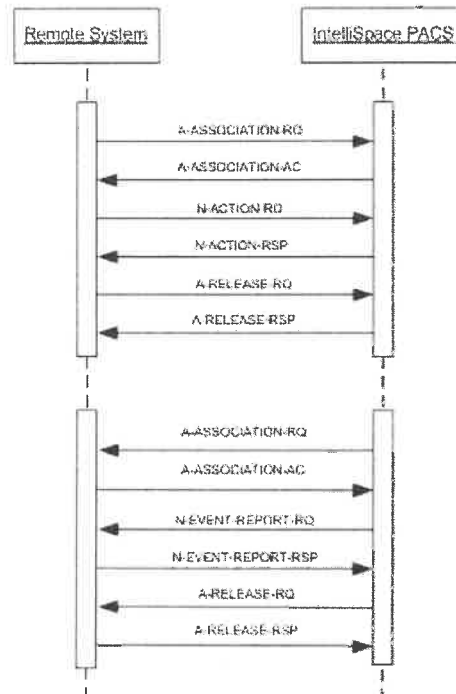


Figure 15: (Real-World) Activity – Asynchronous Storage Commitment as SCP

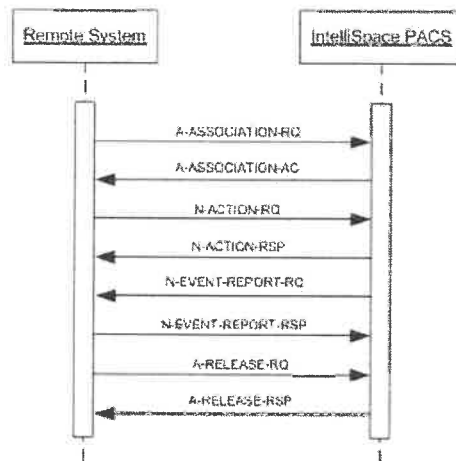


Figure 16: (Real-World) Activity – Synchronous Storage Commitment as SCP

4.2.2.4.6.2. Accepted Presentation Contexts

The presentation contexts are defined in next table.

Table 101: Acceptable Presentation Contexts for (Real-World) Activity – Storage Commitment Push Model AS SCP

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Storage Commitment Push Model SOP Class	1.2.840.10008.1.20.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.2.4.6.3. SOP Specific Conformance for Storage Commitment Push Model SOP Class

The associated Activity with the Storage Commitment Push Model service is the communication by the STORAGE-SCP AE to peer AEs that it has committed to permanently store Composite SOP Instances that have been sent to it. It thus allows peer AEs to determine whether the IntelliSpace Server has taken responsibility for the archiving of specific SOP Instances so that they can be flushed from the peer AE system.

The STORAGE-SCP AE takes the list of Composite SOP Instance UIDs specified in a Storage Commitment Push Model N-ACTION Request and checks if they are present in the IntelliSpace DICOM Server application database. As long as the Composite SOP Instance UIDs are present in the database, the STORAGE-SCP AE will consider those Composite SOP Instance UIDs to be successfully archived. The STORAGE-SCP AE does not require the Composite SOP Instances to actually be successfully written to archive media in order to commit to responsibility for maintaining these SOP Instances.

Once the STORAGE-SCP AE has checked for the existence of the specified Composite SOP Instances, it will then attempt to send the Notification request (N-EVENT-REPORT-RQ). The default behavior is to attempt to send this Notification over the same Association that was used by the peer AE to send the original N-ACTION Request. If the Association has already been released or Message transfer fails for some reason then the STORAGE-SCP AE will attempt to send the N-EVENT-REPORT-RQ over a new Association. The STORAGE-SCP AE will request a new Association with the peer AE that made the original N-ACTION Request. The STORAGE-SCP AE can be configured to always open a new Association in order to send the Notification request.

The STORAGE-SCP AE will not cache Storage Commitment Push Model N-ACTION Requests that specify Composite SOP Instances that have not yet been transferred to the IntelliSpace DICOM Server application. If a peer AE sends a Storage Commitment Push Model N-ACTION Request before the specified Composite SOP Instances are later sent over the same Association, the STORAGE-SCP AE will not commit to responsibility for such SOP Instances.

The STORAGE-SCP AE does not support the optional Storage Media File-Set ID & UID attributes in the N-ACTION.

4.2.2.4.6.3.1. Dataset Specific Conformance for Storage Commitment Push Model N-EVENT-REPORT SCU

IntelliSpace server issues a N-EVENT-REPORT-RQ Commitment Push (a notification request). Once N-EVENT-REPORT-RQ is sent to SCP then IntelliSpace server waits for the response for the duration of 30 seconds. If response is not received within 30 seconds then error is written in the log.
For asynchronous, IntelliSpace server aborts the association. For synchronous storage commit, the operation for specified association id fails.

Table 102: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Successful store	Message was received successfully
Failed	0110	Operation failed	If failed to parse the message. Association is aborted.
	0119	Class instance Conflict	Class instance conflict. Association is aborted.

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Service Status	Error Code	Further Meaning	Behavior
	0210	Duplicate	Duplicate invocation. Association is aborted.
	0115	Bad argument	Invalid argument value. Association is aborted.
	0212	Wrong argument	Mistyped argument. Association is aborted.
	0114	No argument	No such argument. Association is aborted.
	0113	Wrong event type	No such event type. Association is aborted.
	0118	Wrong SOP class	No such SOP class. Association is aborted.
	0112	Wrong SOP instance	No such SOP instance. Association is aborted.
	0213	Resource limitation	No resources available. Association is aborted.
	0211	Unrecognized operation	Such operation is not recognized. Association is aborted.

4.2.2.4.6.3.2. Dataset Specific Conformance for Storage Commitment Push Model N-ACTION SCP

Site server receives a N-ACTION-RQ Commitment Push. Then it parses the storage commit message and extracts transaction UID, then referenced SOP sequence, and sequentially, referenced SOP class UIDs, referenced SOP instance UIDs and referenced SOP sequence. Upon a completion of this the IntelliSpace server returns the following status codes:

Table 103: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Successful store	Message was received successfully
Failed	0110	Operation failed	It failed to parse the message.

4.2.3. IntelliSpace DICOM Worklist Server AE

Detail of this specific Application Entity is specified in this section.

4.2.3.1. SOP Classes

This Application Entity provides Standard Conformance to the following SOP Classes.

Table 104: SOP Classes for IntelliSpace DICOM Worklist Server AE

SOP Class Name	SOP Class UID	SCU	SCP
Verification SOP Class	1.2.840.10008.1.1	No	Yes
Modality Worklist Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.31	No	Yes

Note: Any SOP specific behavior is documented later in the conformance statement in the applicable SOP specific conformance section.

4.2.3.2. Association Policies

Each AE specification contains a description of the general association establishment and acceptance policies of the AE.

4.2.3.2.1. General

The IntelliSpace Worklist Server supports the acceptance of DICOM associations for the DICOM Modality Worklist Service and the DICOM Verification Service. The IntelliSpace Worklist Server application supports a maximum PDU size of 64KB.

The DICOM standard application context has specified.

Table 105: DICOM Application Context

Application Context Name	1.2.840.10008.3.1.1.1
--------------------------	-----------------------

4.2.3.2.2. Number of Associations

The number of simultaneous associations that an Application Entity may support as an Initiator or Acceptor is specified.

Table 106: Number of associations as an Association Acceptor for this AE

Description	Value
Maximum number of simultaneous associations	Depends on hardware and overall system performance

4.2.3.2.3. Asynchronous Nature

The IntelliSpace Worklist Server application does not support negotiation of multiple outstanding transactions.

4.2.3.2.4. Implementation Identifying Information

The value supplied for Implementation Class UID and version name are documented here.

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Table 107: DICOM Implementation Class and Version for IntelliSpace DICOM Worklist Server AE

Implementation Class UID	1.3.46.670589.42.3
Implementation Version Name	Philips_iSite_44

4.2.3.3. Association Initiation Policy

The Application Entity will response on a received reject Association attempts as shown in next table.

Table 108: Association Rejection response

Result	Source	Reason/Diagnosis	Explanation
1 - rejected permanent	1 - DICOM UL service-user	1 - no-Reason-given	The user is informed and details are logged.
		2 - application-context-name-not-supported	
		3 - calling-AE-title-not-recognized	
		7 - called-AE-title-not-recognized	
2 - Rejected-transient	2 - DICOM UL service provider (ACSE related function)	1 - no-reason-given	
	3 - DICOM UL service provider (Presentation related function)	2 - protocol-version-not-supported	
		1 - temporary-congestion	
	1 - DICOM UL service-user	2 - local-limit-exceeded	
		1 - no-Reason-given	
		2 - application-context-name-not-supported	
		3 - calling-AE-title-not-recognized	
		7 - called-AE-title-not-recognized	
	2 - DICOM UL service provider (ACSE related function)	1 - no-reason-given	
	3 - DICOM UL service provider (Presentation related function)	2 - protocol-version-not-supported	
		1 - temporary-congestion	
		2 - local-limit-exceeded	

The behavior of the AE on receiving an association abort is summarized in next table.

Table 109: Association Abort Handling

Source	Reason/Diagnosis	Behavior
0 - DICOM UL service-user (initiated abort)	0 - reason-not-specified	Notifies remote AE, terminates the connection and logs the event.
2 - DICOM UL service-provider (initiated abort)	0 - reason-not-specified	
	1 - unrecognized-PDU	
	2 - unexpected-PDU	
	4 - unrecognized-PDU parameter	
	5 - unexpected-PDU parameter	
	6 - invalid-PDU-parameter value	

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4.2.3.3.1. (Real-World) Activity – Verification as SCP

4.2.3.3.1.1. Description and Sequencing of Activities

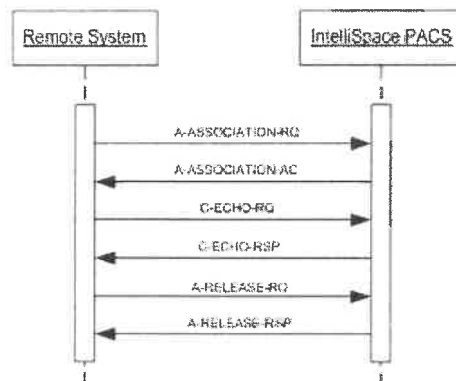


Figure 17: (Real-World) Activity – C-ECHO as SCP

4.2.3.3.1.2. Accepted Presentation Contexts

The presentation contexts are defined in next table.

Table 110: Acceptable Presentation Contexts for (Real-World) Activity – Verification as SCP

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Verification SOP Class	1.2.840.10008.1.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.3.3.1.3. SOP Specific Conformance for Verification SOP Class

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.3.3.1.3.1. Dataset Specific Conformance for Verification C-ECHO SCP

The DICOM command communication behavior is shown in the following table. The standard as well as the specific status codes and their corresponding behavior are also specified.

Table 111: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Confirmation	C-Echo request accepted

4.2.3.3.2. (Real-World) Activity – Modality Worklist as SCP

4.2.3.3.2.1. Description and Sequencing of Activities

A remote application entity will establish an association with the IntelliSpace Worklist Server entity in order to perform DICOM Modality Worklist operations. This activity is generally initiated by an end-user of the remote system interacting with some user interface to generate the requests.

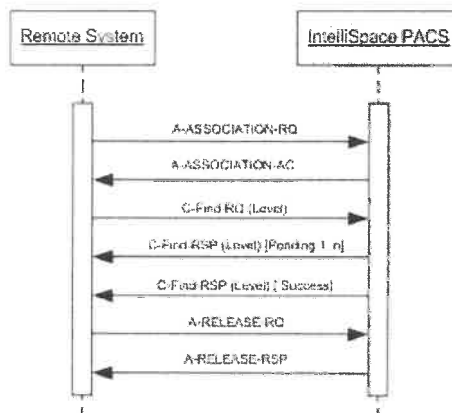


Figure 18: (Real-World World) Activity – Modality Worklist Information C-Find as SCP

4.2.3.3.2.2. Accepted Presentation Contexts

The presentation contexts are defined in next table.

Table 112: Acceptable Presentation Contexts for (Real-World) Activity – Modality worklist as SCP

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Modality Worklist Information Model - C-FIND SOP Class	1.2.840.10008.5.1.4.31	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCP	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

4.2.3.3.2.3. SOP Specific Conformance for Modality Worklist Information Model - C-FIND SOP Class

This section and sub-section includes the manufacturer SOP and Dataset specific information as well the status codes and their corresponding behavior.

4.2.3.3.2.3.1. Dataset Specific Conformance for Modality Worklist Information Model - C-FIND C-FIND SCP

The supported C-Find request keys and the DICOM command communication behavior are shown in the following tables. The standard as well as the specific status codes and their corresponding behavior are also specified.

Table 113: Modality Worklist Optional Return keys supported

Attribute Name	Tag	VR	Remark/ Comment
SOP Common Module			
Specific Character Set	0008,0005	CS	
Patient Identification Module			
Patient's Name	0010,0010	PN	Returns only first, middle and last name
Patient ID	0010,0020	LO	
Patient Demographic Module			
Patient's Birth Date	0010,0030	DA	
Patient's Sex	0010,0040	CS	
Patient's Weight	0010,1030	DS	Returns zero-length.
Confidentiality Constraint on Patient Data Description	0040,3001	LO	Returns zero-length.
Patient Medical Module			
Medical Alerts	0010,2000	LO	Returns zero
Pregnancy Status	0010,21C0	US	Returns zero
Contrast Allergies	0010,2110	LO	Returns zero-length.
Special Needs	0038,0050	LO	Returns zero
Patient State	0038,0500	LO	Returns zero
Visit Relationship Module			
Referenced Patient Sequence	0008,1120	SQ	Returns zero-length.
>Referenced SOP Class UID	0008,1150	UI	Returns zero-length.
>Referenced SOP Instance UID	0008,1155	UI	Returns zero-length.
Visit Identification Module			
Admission ID	0038,0010	LO	Returns zero-length.
Visit Status Module			
Current Patient Location	0038,0300	LO	Returns zero-length.
Scheduled Procedure Step Module			
Scheduled Procedure Step Sequence	0040,0100	SQ	The Attributes of the Scheduled Procedure Step shall only be retrieved with Sequence Matching. The Scheduled Procedure Step Sequence shall contain only a single item.
>Modality	0008,0060	CS	
>Requested Contrast Agent	0032,1070	LO	Returns zero-length.
>Scheduled Station AE Title	0040,0001	AE	The System does not directly allow query on Scheduled Station AE Title. The system uses a concept of resources which can map to one or more AE titles. If the querying Modality is configured in IntelliSpaceweb to narrow the results by resources (AE titles), then the system returns all results that are scheduled on the resource i.e. AE titles mapped to that resource. Returns Scheduled Station AE Title in responses when the specific Scheduled Station AE Title is present in the DMWL request.
>Scheduled Procedure Step Start Date	0040,0002	DA	
>Scheduled Procedure Step Start Time	0040,0003	TM	If both date and time keys are specified for Range Matching, e.g. the date range "July5\July 7" and the time range "10am\6pm" specifies the time period starting on July 5, 10am until July 7, 6pm.
>Scheduled Performing Physician's Name	0040,0006	PN	
>Scheduled Procedure Step Description	0040,0007	LO	No matching but returns existence.
>Scheduled Protocol Code Sequence	0040,0008	SQ	

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Attribute Name	Tag	VR	Remark/ Comment
>>Code Value	0008,0100	SH	Returns existence if SQ is present in the request
>>Coding Scheme Designator	0008,0102	SH	Returns existence if SQ is present in the request
>>Code Meaning	0008,0104	LO	Returns existence if SQ is present in the request
>Scheduled Procedure Step ID	0040,0009	SH	No matching but returns existence.
>Scheduled Station Name	0040,0010	SH	Returns zero-length.
>Scheduled Procedure Step Location	0040,0011	SH	No matching but returns existence.
>Pre-Medication	0040,0012	LO	Returns zero-length.
>Scheduled Procedure Step Status	0040,0020	CS	Returns existence. Currently, the only two supported values are "STARTED" and "SCHEDULED".
Requested Procedure Module			
Referenced Study Sequence	0008,1110	SQ	
>Referenced SOP Class UID	0008,1150	UI	
>Referenced SOP Instance UID	0008,1155	UI	
Study Instance UID	0020,000D	UI	
Requested Procedure Description	0032,1060	LO	Returns zero-length.
Requested Procedure Code Sequence	0032,1064	SQ	
>Code Value	0008,0100	SH	Returns existence if SQ is present in the request
>Coding Scheme Designator	0008,0102	SH	Returns existence if SQ is present in the request
>Code Meaning	0008,0104	LO	Returns existence if SQ is present in the request
Requested Procedure ID	0040,1001	SH	
Requested Procedure Priority	0040,1003	SH	
Patient Transport Arrangements	0040,1004	LO	Returns zero-length.
Imaging Service Request Module			
Accession Number	0008,0050	SH	
Referring Physician's Name	0008,0090	PN	No matching but returns existence
Requesting Physician	0032,1032	PN	

Table 114: Status Response

Service Status	Error Code	Further Meaning	Behavior
Success	0000	Matching is complete	A response is sent with this status code.
Refused	A700	Out of Resources	A response is sent with this status code. Reason is Logged and released association.
Failure	C000	Unable to process	A response is sent with this status code. The reason is logged in the file.
Pending	FF00	Current match is supplied	Matches are continuing; Current match is supplied.
Cancel	FE00	Matching terminated due to Cancel Request	No more C-FIND pending responses will be sent and a final response with this status code is sent. Cancel request is logged.

Table 115: Communication Failure Behavior

Exception	Behavior
Timeout	The association is released and the reason is logged
Association Aborted	The association is released and the reason is logged

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4.3. Network Interfaces

4.3.1. Physical Network Interfaces

The System provides only DICOM V3.0 TCP/IP Network Communication Support as defined in PS 3.8 of the standard.

TCP/IP is the only protocol stack supported.

Supported physical medium include:

IEEE 802.3-1995	10BASE-T
IEEE 802.3-1995	100BASE-TX (Fast Ethernet)
IEEE 802.3	1000BASE-X (Fiber Optic Gigabit Ethernet).

The TCP/IP Stack as supported by the underlying Operating System.

The API is the WinSock 2 interface as supported by the underlying Operating System.

4.3.2. Additional Protocols

Not applicable

4.4. Configuration

Any implementation's DICOM conformance may be dependent upon configuration, which takes place at the time of installation. Issues concerning configuration are addressed in this section.

4.4.1. AE Title/Presentation Address Mapping

An important installation issue is the translation from AE title to presentation address. How this is to be performed is describe here.

4.4.1.1. Local AE Titles

The local AE title mapping and configuration are specified as:

Table 116: AE Title configuration table

Application Entity	Default AE Title	Default TCP/IP Port
IntelliSpace DICOM Server AE	STENTOR_SCP	104
	STENTOR_SCU	N/A
	DefaultAETitle	N/A
	STENTOR_SCSCU	N/A
	STENTOR_QRP	107
	STENTOR_QRU	N/A
IntelliSpace DICOM Radiology Client AE	STENTOR_SCU	N/A
IntelliSpace DICOM Worklist Server AE	DEFAULT	8104

4.4.2. Parameters

The specification of important operational parameters, their default value and range (if configurable) is specified here.

Table 117: Configuration Parameters Table

Parameter	Configurable	Default Value
General Parameter		
Time-out waiting for acceptance or rejection Response to an Association Open Request (Application Level timeout)	No	30 seconds

Parameter	Configurable	Default Value
General DIMSE level time-out values (Verification, Storage, Storage Commitment)	No	30 seconds
Time-out for response to TCP/IP connect request. (Low-level timeout)	No	30 seconds
Time-out waiting for acceptance of a TCP/IP message over the network (Low-level timeout)	No	30 seconds
Time-out for waiting for data between TCP/IP packets. (Low-level timeout)	No	30 seconds
AE Specific Parameters		
Maximum PDU size the AE can receive	No	64234 bytes
Maximum PDU size the AE can send	No	64234 bytes
Storage Commitment Specific Parameters		
Storage Commitment Retry Count	No	18
Print Management Specific Parameters		
Delay between retries	No	60

5. Media Interchange

5.1. Implementation model

The implementation model identifies the DICOM Application Entities for Media in specific implementation and relates the Application Entities to Real-World Activities.

5.1.1. Application Data Flow Diagram

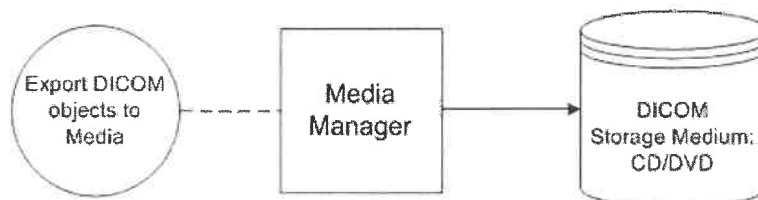


Figure 19: Media Application Data Flow Diagram

The Media Manager Application Entity exports images and Presentation States to a removable media (CD/DVD) Storage. It is associated with the local real-world activity "Export DICOM objects to media." "Export DICOM objects to Media" is performed upon user request for selected patients, studies, series or instances (images or presentation states).

5.1.2. Functional Definitions of AE's

This section contains the functional definition of each individual local Media Application Entity.

5.1.2.1. Functional Definition of Media-Manager Application Entity

The IntelliSpace Media Manager Application is part of the Media Manager tool from the IntelliSpace Client. It is capable of exporting local exams in DICOM Media format, including the DICOMDIR for the Fileset. Only one Fileset and DICOMDIR is allowed on the Media. A Fileset can't populate more than one media CD/DVD device. Transfer syntax for the media will be the same as the Received or Created (GSPS, RAWDATA and Encapsulated PDF) SOP Classes, transfer syntax.

5.1.3. Sequencing of Real World Activities

At least one image or presentation state must exist and be selected before the Media Manager Application Entity can be invoked. The operator can insert a new CD/DVD media at any time before or after invocation of the Media Application Entity. The Media Application Entity will wait indefinitely for a media to be inserted before starting to write to the media device.

5.1.4. File Meta Information Options

The implementation information written to the File Meta Header in each file is:

Table 118: DICOM Implementation Class and Version for Media Storage

Implementation Class UID	1.3.46.670589.42.3
Implementation Version Name	Philips_iSite_44

5.2 Exporting DICOM SOP Classes on Media

IntelliSpace support the export of all the transferred SOP Classes received on the Network or Created by IntelliSpace (GSPS, RAWDATA and Encapsulate PDF).

The Encapsulated PDFStorage SOP Class is supported only for the purpose of translating the Radiology Reports that are received through the HL7 ORU message and are transcoded to DICOM Encapsulated PDF and can be exported only through the DICOM Media. Enclosed is the Presentation Context for the media exported of Encasulated PDFStorage SOP Class:

Table 119: Presentation Contexts for (Real-World) Activity – Exporting DICOM SOP Classes on Media

Presentation Context Table					
Abstract Syntax		Transfer Syntax		Role	Extended Negotiation
Name	UID	Name List	UID List		
Encapsulated PDF Storage SOP Class	1.2.840.10008.5.1.4.1.1.104.1	Explicit VR Big Endian	1.2.840.10008.1.2.2	SCU	None
		Explicit VR Little Endian	1.2.840.10008.1.2.1		
		Implicit VR Little Endian	1.2.840.10008.1.2		

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6. Support of Character Sets

Any support for character sets in Network and Media services is described here

Table 120: Supported DICOM Character Sets

Character Set Description	Defined Term	ESC Sequence	ISO Registration Number	Code Element	Character Set
Latin alphabet No. 1	ISO_IR 100	N/A	ISO-IR 6	G0	ISO 646
		N/A	ISO-IR 100	G1	Supplementary set of ISO 8859

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7. Security

IntelliSpace PACS does not support any specific DICOM Security Profile. It is assumed that IntelliSpace PACS is used within a secured environment that uses Firewall, Router Protection, etc.

8. Annexes of application

8.1. IOD Contents

8.1.1. Created SOP Instance

This section specifies each IOD created by this application.

This section specifies each IOD created (including private IOD's). It should specify the attribute name, tag, VR, and value. The value should specify the range and source (e.g. user input, Modality Worklist, automatically generated, etc.). For content items in templates, the range and source of the concept name and concept values should be specified. Whether the value is always present or not shall be specified.

Abbreviations used in the IOD tables for the column "Presence of Module" are:

ALWAYS The module is always present
 CONDITIONAL The module is used under specified condition
 Optional The module is optional

Abbreviations used in the Module table for the column "Presence of Value" are:

ALWAYS The attribute is always present with a value
 EMPTY The attribute is always present without any value (attribute sent zero length)
 VNAP The attribute is always present and its Value is Not Always Present
 (attribute sent zero length if no value is present)
 ANAP The attribute is present under specified condition – if present then it will always have a value
 ANAPCV The attribute is present under specified condition – if present then its Value is Not Always Present
 (attribute sent zero length if condition applies and no value is present)
 ANAPEV The attribute is present under specified condition – if present then it will not have any value

The abbreviations used in the Module table for the column "Source" are:

AUTO The attribute value is generated automatically
 CONFIG The attribute value source is a configurable parameter
 COPY The attribute value source is another SOP instance
 FIXED The attribute value is hard-coded in the application
 IMPLICIT The attribute value source is a user-implicit setting
 MPPS The attribute value is the same as that use for Modality Performed Procedure Step
 MWL The attribute value source is a Modality Worklist
 USER The attribute value source is explicit user input

8.1.1.1. List of created SOP Classes

Table 121: List of created SOP Classes

SOP Class Name	SOP Class UID
Grayscale Softcopy Presentation State Storage SOP Class	1.2.840.10008.5.1.4.1.1.11.1
Raw Data Storage SOP Class	1.2.840.10008.5.1.4.1.1.66
Encapsulated PDF Storage SOP Class	1.2.840.10008.5.1.4.1.1.104.1

The IntelliSpace Created SOP Classes instances will use the Philips PACS Instance UID identification:
 1.3.46.670589.42.3.x Where x will identify the specific instance.

The RAWDATA SOP Class is a Standard Extended SOP Class and it is described in the section 8.5.1.

The Encapsulated PDF Storage SOP Class, is being used only for Media Export, for more details see Sections 5.2 and 8.1.1.3

8.1.1.2. Grayscale Softcopy Presentation State Storage SOP Class

Table 122: IOD of Created Grayscale Softcopy Presentation State Storage SOP Class Instances

Information Entity	Module	Presence Of Module
Patient	Patient Module	ALWAYS
Study	General Study Module	ALWAYS
Series	General Series Module	ALWAYS
	Presentation Series Module	ALWAYS
Equipment	General Equipment Module	ALWAYS
Presentation State	Presentation State Identification Module	ALWAYS
	Presentation State Relationship Module	ALWAYS
	Overlay Plane Module	CONDITIONAL
	Overlay Activation Module	CONDITIONAL
	Displayed Area Module	ALWAYS for Creation. Not Supported for Loading
	Graphic Annotation Module	CONDITIONAL
	Spatial Transformation Module	CONDITIONAL
	Graphic Layer Module	CONDITIONAL
	Modality LUT Module	CONDITIONAL
	Softcopy VOI LUT Module	CONDITIONAL
	Softcopy Presentation LUT Module	ALWAYS
	SOP Common Module	ALWAYS

Note: The enclosed GSPS Modules supported are describing both the GSPS object Creation/Write and loading GSPS objects from importing Studies from modalities or other workstations.

Table 123: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN	Any	VNAP	COPY	
Patient ID	0010,0020	LO	Any	VNAP	COPY	
Patient's Birth Date	0010,0030	DA	Any	VNAP	COPY	
Patient's Sex	0010,0040	CS	Any	VNAP	COPY	

For Patient module, the optional type 3 tags are not being load and similarly for the created new GSPS these type 3 tags are not added.

Table 124: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA	Any	VNAP	COPY	
Study Time	0008,0030	TM	Any	VNAP	COPY	
Accession Number	0008,0050	SH	Any	VNAP	COPY	
Referring Physician's Name	0008,0090	PN	Any	VNAP	COPY	
Study Instance UID	0020,000D	UI	Any	ALWAYS	AUTO	
Study ID	0020,0010	SH	Any	VNAP	COPY	

For General Study module, the optional type 3 tags are not being load and similarly for the created new GSPS these type 3 tags are not added.

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Table 125: General Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Anatomical Orientation Type	0010,2210	CS	BIPED, QUADRUPE	N/A	N/A	Not Supported
Patient Position	0018,5100	CS	HFP, HFS, HFDR, HFDL, FFDR, FFDL, FFP, FFS	ANAPCV	COPY	Not Supported
Series Instance UID	0020,000E	UI	Any	ALWAYS	AUTO	
Series Number	0020,0011	IS	Any	VNAP	AUTO	
Laterality	0020,0060	CS	L, R	ANAPCV	COPY	Not Supported

For General Series module, the optional type 3 tags are not being load and similarly for the created new GSPS these type 3 tags are not added.

Table 126: Presentation Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Modality	0008,0060	CS	PR	ALWAYS	FIXED	

Table 127: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Any	VNAP	AUTO	
Institution Name	0008,0080	LO	Any	VNAP	AUTO	The institution name is not entered when created a GSPS

For General Equipment module, the optional type 3 tags are not being load and similarly for the created new GSPS these type 3 tags are not added.

Table 128: Presentation State Identification Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Instance Number	0020,0013	IS	Any	ALWAYS	AUTO	
Content Label	0070,0080	CS	Any	ALWAYS	AUTO	
Content Description	0070,0081	LO	Any	VNAP	USER	
Presentation Creation Date	0070,0082	DA	Any	ALWAYS	AUTO	
Presentation Creation Time	0070,0083	TM	Any	ALWAYS	AUTO	
Content Creator's Name	0070,0084	PN	Any	VNAP	AUTO	

For Presentation State Identification module, the optional type 3 tags are not being load and similarly for the created new GSPS these type 3 tags are not added.

Table 129: Presentation State Relationship Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Referenced Series Sequence	0008,1115	SQ	Any	ALWAYS	AUTO	
>Referenced Image Sequence	0008,1140	SQ	Any	ALWAYS	AUTO	
>>Referenced SOP Class UID	0008,1150	UI	Any	ALWAYS	AUTO	
>>Referenced SOP Instance UID	0008,1155	UI	Any	ALWAYS	AUTO	

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>>Referenced Frame Number	0008,1160	IS	Any	ALWAYS	AUTO	
>>Referenced Segment Number	0062,000B	US	Any	ALWAYS	AUTO	Not Supported
>Series Instance UID	0020,000E	UI	Any	ALWAYS	AUTO	

Table 130: Overlay Plane Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Overlay Rows	60xx,0010	US	Any	ALWAYS	COPY	
Overlay Columns	60xx,0011	US	Any	ALWAYS	COPY	
Overlay Type	60xx,0040	CS	G, R	ALWAYS	COPY	
Overlay Origin	60xx,0050	SS	Any	ALWAYS	COPY	
Overlay Bits Allocated	60xx,0100	US	1	ALWAYS	COPY	
Overlay Bit Position	60xx,0102	US	0	ALWAYS	COPY	
Overlay Data	60xx,3000	OW	Any	ALWAYS	COPY	

For the Overlay Plane module, the optional type 3 tags are not being load and similarly for the created new GSPS these type 3 tags are not added.

Table 131: Overlay Activation Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Overlay Activation Layer	60xx,1001	CS	Any	VNAP	AUTO	

Table 132: Displayed Area Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Displayed Area Selection Sequence	0070,005A	SQ	Any	ALWAYS	AUTO	
>Displayed Area Top Left Hand Corner	0070,0052	SL	Any	ALWAYS	AUTO	
>Displayed Area Bottom Right Hand Corner	0070,0053	SL	Any	ALWAYS	AUTO	
>Presentation Size Mode	0070,0100	CS	SCALE_TO_FIT, TRUE SIZE, MAGNIFY	ALWAYS	AUTO	Support only SCALE_TO_FIT
>Presentation Pixel Spacing	0070,0101	DS	Any	ANAP	AUTO	
>Presentation Pixel Aspect Ratio	0070,0102	IS	"1/1"	ANAP	AUTO	
>Presentation Pixel Magnification Ratio	0070,0103	FL	Any	ANAP	AUTO	Not Supported
>Referenced Image Sequence	0008,1140	SQ	Any	ANAP	AUTO	
>>Referenced SOP Class UID	0008,1150	UI	Any	ALWAYS	AUTO	
>>Referenced SOP Instance UID	0008,1155	UI	Any	ALWAYS	AUTO	
>>Referenced Frame Number	0008,1160	IS	Any	ANAP	AUTO	
>>Referenced Segment Number	0062,000B	US	Any	ANAP	AUTO	Not Supported

The Display Area module is supported only for the GSPS Creation. The Loading from third party is NOT Supported.

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Table 133: Graphic Annotation Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Graphic Annotation Sequence	0070,0001	SQ	Any	ALWAYS	AUTO	Implemented partial support for loading and writing
>Graphic Layer	0070,0002	CS	Any	ALWAYS	AUTO	
>Referenced Image Sequence	0008,1140	SQ	Any	ALWAYS	AUTO	implemented support for loading and writing
>>Referenced SOP Class UID	0008,1150	UI	Any	ANAP	AUTO	
>>Referenced SOP Instance UID	0008,1155	UI	Any	ANAP	AUTO	
>>Referenced Frame Number	0008,1160	IS	Any	ANAP	AUTO	
>>Referenced Segment Number	0062,000B	US	Any	ANAP	AUTO	Not Supported
>Text Object Sequence	0070,0008	SQ	Any	ANAP	AUTO	
>>Bounding Box Annotation Units	0070,0003	CS	PIXEL	ANAP	AUTO	DISPLAY mode is Not Supported for Creation. The Creation of GSPS is always in Pixel mode. The Display mode is supported only for Loading a GSPS from an importation.
>>Anchor Point Annotation Units	0070,0004	CS	PIXEL, DISPLAY	ALWAYS	AUTO	DISPLAY mode is Not Supported for Creation. The Creation of GSPS is always in Pixel mode. The Display mode is supported only for Loading a GSPS from an importation.
>>Unformatted Text Value	0070,0006	ST	Any	ALWAYS	AUTO	
>>Bounding Box Top Left Hand Corner	0070,0010	FL	Any	ANAP	AUTO	
>>Bounding Box Bottom Right Hand Corner	0070,0011	FL	Any	ANAP	AUTO	
>>Bounding Box Text Horizontal Justification	0070,0012	CS	CENTER, LEFT, RIGHT	ANAP	AUTO	
>>Anchor Point	0070,0014	FL	Any	ANAP	AUTO	
>>Anchor Point Visibility	0070,0015	CS	N, Y	ANAP	AUTO	
>Graphic Object Sequence	0070,0009	SQ	Any	ANAP	AUTO	
>>Graphic Annotation Units	0070,0005	CS	PIXEL	ALWAYS	AUTO	DISPLAY mode is Not Supported for Creation. The Creation of GSPS is always in Pixel mode. The Display mode is supported only for Loading a GSPS from an importation.
>>Graphic Dimensions	0070,0020	US	2	ALWAYS	AUTO	Supported and value "2" always for loading; Supported and value "2" always for writing.
>>Number of Graphic Points	0070,0021	US	Any	ALWAYS	AUTO	
>>Graphic Data	0070,0022	FL	Any	ALWAYS	AUTO	
>>Graphic Type	0070,0023	CS	CIRCLE, ELLIPSE, POINT, POLYLINE, INTERPOLATED	ALWAYS	AUTO	INTERPOLATED mode is NOT Supported for the Creation of GSPS. For Loading imported GSPS We draw line between points. Note: Sub-pixel coordinates are truncated to integer
>>Graphic Filled	0070,0024	CS	N, Y	ANAP	AUTO	

Table 134: Spatial Transformation Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Image Horizontal Flip	0070,0041	CS	N, Y	ALWAYS	AUTO	
Image Rotation	0070,0042	US	0, 90, 180, 270	ALWAYS	AUTO	

Table 135: Graphic Layer Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Graphic Layer Sequence	0070,0060	SQ	Any	ALWAYS	AUTO	
>Graphic Layer	0070,0002	CS	Any	ALWAYS	AUTO	Use case 1: User creates a GSPS on IntelliSpace after loading a GSPS. In this case, the layers specified in the original GSPS will be copied over to the new GSPS. So, the value can be anything. In addition to the layers present in source, IntelliSpace may add "INTELLISPACEL1" for additional Annotations and/or "INTELLSPACEOVERLAYS" layers for additional Overlays Use case 2: The user creates a new GSPS (without loading any GSPS) "INTELLISPACEL1" – ONLY for annotations that were created on IntelliSpace. "INTELLSPACEOVERLAYS" – for Overlays created ONLY when creating a new GSPS
>Graphic Layer Order	0070,0062	IS	Any	ALWAYS	AUTO	
>Graphic Layer Recommended Display Grayscale Value	0070,0066	US	Any	ANAP	AUTO	
>Graphic Layer Description	0070,0068	LO	Any	ANAP	AUTO	
>Graphic Layer Recommended Display CIE Lab Value	0070,0401	US	Any	ANAP	AUTO	Not Supported

Table 136: Modality LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Rescale Intercept	0028,1052	DS	Any	ANAP	COPY	
Rescale Slope	0028,1053	DS	Any	ANAP	COPY	
Rescale Type	0028,1054	LO	HU, US	ANAP	COPY	"OD" type is Not been Supported
Modality LUT Sequence	0028,3000	SQ	Any	ANAP	COPY	
>LUT Descriptor	0028,3002	US/SS	Any	ALWAYS	COPY	
>LUT Explanation	0028,3003	LO	Any	ANAP	COPY	
>Modality LUT Type	0028,3004	LO	Any	ALWAYS	COPY	
>LUT Data	0028,3006	US/OW	Any	ALWAYS	COPY	

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Table 137: Softcopy VOI LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Softcopy VOI LUT Sequence	0028,3110	SQ	Any	ALWAYS	AUTO	
>Referenced Image Sequence	0008,1140	SQ	Any	ANAP	AUTO	
>>Referenced SOP Class UID	0008,1150	UI	Any	ANAP	AUTO	
>>Referenced SOP Instance UID	0008,1155	UI	Any	ANAP	AUTO	
>> Referenced Frame Number	0008,1160	IS	Any	ANAP	AUTO	
>> Referenced Segment Number	0062,000B	US	Any	ANAP	AUTO	Not Supported
>Window Center	0028,1050	DS	Any	ANAP	AUTO	
>Window Width	0028,1051	DS	Any	ANAP	AUTO	
>Window Center & Width Explanation	0028,1055	LO	Any	ANAP	AUTO	Not Supported
>VOI LUT Function	0028,1056	CS	LINEAR, SIGMOID	ANAP	AUTO	
>VOI LUT Sequence	0028,3010	SQ	Any	ANAP	AUTO	
>>LUT Data	0028,3006	US/OW	Any	ANAP	AUTO	
>>LUT Descriptor	0028,3002	US/SS	Any	ANAP	AUTO	
>>LUT Explanation	0028,3003	LO	Any	ANAP	AUTO	

Table 138: Softcopy Presentation LUT Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Presentation LUT Sequence	2050,0010	SQ	Any	ANAP	AUTO	
>LUT Descriptor	0028,3002	US/SS	Any	ANAP	AUTO	
>LUT Explanation	0028,3003	LO	Any	ANAP	AUTO	
>LUT Data	0028,3006	US/OW	Any	ANAP	AUTO	
Presentation LUT Shape	2050,0020	CS	Any	ANAP	AUTO	

Table 139: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS	ISO_IR 100	ANAP	AUTO	
SOP Class UID	0008,0016	UI	Any	ANAP	AUTO	
SOP Instance UID	0008,0018	UI	Any	ANAP	AUTO	
Instance Number	0020,0013	IS	Any	ANAP	AUTO	

For the SOP Common module, the optional type 3 tags are not being load and similarly for the created new GSPS these type 3 tags are not added.

8.1.1.3. Encapsulated PDF Storage SOP Class

The Encapsulated PDF Storage is being used to export the IntelliSpace Radiology Reports through the DICOM Media exchange. Enclosed are the supported Module and their tags.

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Table 140: Encapsulated PDF Storage SOP Class - Supported Modules

Information Entity	Module	Presence Of Module
Patient	Patient	ALWAYS
Study	General Study	ALWAYS
Series	Encapsulated Document Series	ALWAYS
Equipment	General Equipment	ALWAYS
	SC Equipment	ALWAYS
Encapsulated Document	Encapsulated Document	ALWAYS
	SOP Common	ALWAYS

Note: IntelliSpace Supports only the Mandatory module with the tags that are of type: 1, 1C, 2, 2C. The optional type 3 tags are not being created.

Table 141: Patient Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Patient's Name	0010,0010	PN	Any	VNAP	COPY	
Patient ID	0010,0020	LO	Any	VNAP	COPY	
Patient's Birth Date	0010,0030	DA	Any	VNAP	COPY	
Patient's Sex	0010,0040	CS	Any	VNAP	COPY	
Patient Species Description	0010,2201	LO	Any	N/A	N/A	IntelliSpace does not support animal species
Patient Species Code Sequence	0010,2202	SQ	Any	N/A	N/A	IntelliSpace does not support animal species
Patient Breed Description	0010,2292	LO	Any	N/A	N/A	IntelliSpace does not support animal species
Patient Breed Code Sequence	0010,2293	SQ	Any	N/A	N/A	IntelliSpace does not support animal species
Responsible Person	0010,2297	PN	Any	N/A	N/A	IntelliSpace does not support animal species
Responsible Person Role	0010,2298	CS	Any	N/A	N/A	IntelliSpace does not support animal species
Responsible Organization	0010,2299	LO	Any	N/A	N/A	IntelliSpace does not support animal species

Table 142: General Study Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Study Date	0008,0020	DA	Any	VNAP	COPY	
Study Time	0008,0030	TM	Any	VNAP	COPY	
Accession Number	0008,0050	SH	Any	VNAP	COPY	
Referring Physician's Name	0008,0090	PN	Any	VNAP	COPY	
Study Description	0008,1030	LO	Any	VNAP	COPY	
Study Instance UID	0020,000D	UI	Any	ALWAYS	COPY	
Study ID	0020,0010	SH	Any	VNAP	COPY	

Table 142: Encapsulated Document Series Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Series Date	0008,0021	DA	Any	ALWAYS	AUTO	
Series Time	0008,0031	TM	Any	ALWAYS	AUTO	
Modality	0008,0060	CS	Any	VNAP	COPY	

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Series Instance UID	0020,000E	UI	Any	ALWAYS	AUTO
Series Number	0020,0011	IS	Any	ALWAYS	AUTO

Table 143: General Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Manufacturer	0008,0070	LO	Philips Medical Systems	VNAP	AUTO	
Pixel Padding Value	0028,0120	US or SS	Any	N/A	N/A	Padding is not required and not supported

Table 144: SC Equipment Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Conversion Type	0008,0064	CS	WSD	ALWAYS	AUTO	

Table 145: Encapsulated Document Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Content Date	0008,0023	DA	Any	ALWAYS	AUTO	
Acquisition DateTime	0008,002A	DT	Any	ALWAYS	AUTO	
Content Time	0008,0033	TM	Any	ALWAYS	AUTO	
Instance Number	0020,0013	IS	Any	ALWAYS	AUTO	
Burned In Annotation	0028,0301	CS	NO	ALWAYS	AUTO	
Concept Name Code Sequence	0040,A043	SQ	Null string – zero length			Codes for document title s not being used
HL7 Instance Identifier	0040,E001	ST	Any			Not applicable for PDF documents
Document Title	0042,0010	ST	Any	ALWAYS	AUTO	
Encapsulated Document	0042,0011	OB	Any	ALWAYS	AUTO	
MIME Type	0042,0012	LO	Application/pdf	ALWAYS	AUTO	
Source Instance Sequence	0042,0013	SQ	Any	N/A	N/A	Not Supported - The instance document is not derived from other instances
List of MIME Types	0042,0014	LO	Any	N/A	N/A	Not Applicable – No additional encapsulated documents in the PDF document

Table 146: SOP Common Module

Attribute Name	Tag	VR	Value	Presence of Value	Source	Comment
Specific Character Set	0008,0005	CS	ISO_IR 100	ALWAYS	AUTO	
SOP Class UID	0008,0016	UI	1.2.840.10008.5.1.4.1.1.104.1	ALWAYS	AUTO	
SOP Instance UID	0008,0018	UI	Any	ALWAYS	AUTO	

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8.1.2. Usage of Attributes from Received IOD's

The following table describes the functionality which can be used by this application. For each functionality is listed the required DICOM attributes in order to use the application.

The columns must read as follow:

Functionality	The name of the functionality
Type1	This function can be used if Type 1 and Type 2 attributes are available with the restriction that Type 1 attributes has a value and Type 2 attributes may be empty.
Optional	This functional uses DICOM attributes of Type 2 and Type 3 with a value. The Optional attributes are listed in a separate table in this section.
Private	This function needs DICOM Private attributes.
A combination of Type1, Optional and/or Private attributes is possible.	

Table 147: Functionalities

Functionality	Type1	Optional	Private
Viewer	X		

8.1.2.1. Usage of the Functionality Viewer

The IntelliSpace can display images for the image SOP Classes found in the table below.

Table 148: Supported SOP Classes for functionality Viewer

SOP Class name	SOP Class UID
Softcopy Presentation State Storage SOP Class *	1.2.840.10008.5.1.4.1.1.11.1
Note *: SOP Class is not an image SOP Class and has limitations as described in the following sub-directories	

8.1.2.2. Limitation for Softcopy Presentation State Storage SOP Class

Presentation States are translated and displayed on the IntelliSpace with some limitations as described in this section.

Explanation of the values used in the column "Implemented for Viewing" of table below:

Yes	All Type 1/1C and Type 2/2C tags are supported.
No	This feature is not provided and/or the required information is not available.
Partial	Some tags are supported.

Table 149: IOD of Used Softcopy Presentation State Storage SOP Class – Support for Loading

Module	Implemented for Viewing
Patient Module	yes
Clinical Trial Subject Module	no
General Study	yes
Patient Study Module	no
Clinical Trial Study Module	no
General Series Module	yes
Clinical Trial Series Module	no
Presentation Series Module	yes
General Equipment Module	yes
Presentation State Identification Module	yes
Presentation State Relationship Module	partial
Presentation State Shutter Module	no

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Module	Implemented for Viewing
Presentation State Mask Module	no
Mask Module	no
Display Shutter Module	partial
Bitmap Display Module	no
Overlay Plane Module	yes
Overlay Activation Module	yes
Displayed Area Module	no
Graphic Annotation Module	partial
Spatial Transformation Module	yes
Graphic Layer Module	yes
Modality LUT Module	partial
Softcopy VOI LUT Module	partial
Softcopy Presentation LUT Module	partial
SOP Common Module	partial

Note: The supported modules and their tags for the loaded GSPS is described together with the Supported GSPS Created. See details in the section 8.1.1. Whenever, there is a different in the support of a module or a tag in the module for GSPS Loading and Creation, the differences are described in the section 8.1.1.2

8.1.3. Attribute Mapping

Not applicable.

8.1.4. Coerced/Modified fields

Not applicable.

8.2. Data Dictionary of Private Attributes

The following are the IntelliSpace private attributes:

Table 150: Data Dictionary Of Private Attributes

Tag	Attribute Name	VR	VM	Attribute Description	Location
(0073, 0010)	Stentor Private Tag Placeholder	ST	1	A private tag placeholder	Study level of a study's composite
(0073, 1001)	Stentor Sending Hostname Element	ST	1	Hostname used for sending	Study level of a study's composite
(0073, 1002)	Stentor Remote IP-Adress Element	ST	1	Stores the remote IP-address of where the study came from	Study level of a study's composite
(0073, 1003)	Stentor Remote AETitle Element	ST	1	Stores the remote AE-Title of where the study came from	Study level of a study's composite
(0073, 1004)	Stentor Local AETitle Element	ST	1	Name/Value of local AE-Title	Study level of a study's composite
(0073, 1005)	IntelliSpace PS Key Image Flag	ST	1	Stores in IntelliSpace Presentation State to indicate whether the given image is a key image	Instance level
(0073, 1006)	IntelliSpace PS Number of Length Measurements	US	1	Store in presentation state the number of length measurements that have been defined by the user	Instance level
(0073, 1007)	Series Clone ID	SS	1	Present if the series represents a clone. It stores the ID of the clone.	Instance level
(0073, 1008)	Series Clone from Window	SS	1	Present if the series represents a clone. It stores	Instance level

Tag	Attribute Name	VR	VM	Attribute Description	Location
	Number			the window number from which this series was cloned.	
(0073, 1009)	Number of Clones of a series	SS	1	Stores the number of clones of a series.	Instance level
(0073, 101A)	Message Response Description	LT	1	Stores a description about the response.	Study level
(0073, 101B)	Study Date Update	LT	1	Stores that the study date is updated	Study level
(0073, 101C)	Study Time Update	LT	1	Stores that the study time is updated.	Study level
(0073, 101D)	IntelliSpace PS Version	LT	1	Stores the IntelliSpace private presentation state version.	Instance level
(0073, 101E)	Embedded IntelliSpace PS	UN	1	The IntelliSpace private Presentation State data - Serialized IntelliSpacePS xml	RAWDATA Extended SOP Class for exporting IntelliSpace private Presentation State
(0073, 101F)	IntelliSpace Presentation type	UN	1	Protocol Name "Technologist"= PSDescriptor::Technologist "Radiologist"= PSDescriptor::Radiologist "PreRead"= PSDescriptor::PreRead "User"= PSDescriptor::User "Conference"= PSDescriptor::Conference "ReferenceCPS"= PSDescriptor::ReferenceCPS	RAWDATA Extended SOP Class for exporting IntelliSpace private Presentation State
(0073, 1020)	IntelliSpace PS Modifier Name	LT	1	Stores the name of the modifier of the PS	Series level
(0073, 1021)	IntelliSpace PS Modification Date	LT	1	Stored the date when PS is modified	Series level
(0073, 1022)	IntelliSpace PS Modification Time	LT	1	Stored the time when PS is modified	Series level
(0073, 1023)	Current Image Frame	US	1	Stores the currently displayed frame for multi-frame image	Series level
(0073, 1024)	UTC Offset	SS	1	Stores the UTC offset	Study level
(0073, 1025)	Exam Body Part	LO	1	Stores the exam body part	Study level
(0073, 1026)	Exam Modality	LO	1	Stores the exam modality	Study level
(0073, 1027)	Exam Code	LO	1	Stores the exam code	Study level
(0073, 102C)	Alternative Patient ID	LO	1	Stores alternative patient ID sequence	Study level
(0073, 102D)	Study Complete Flag	LO	1	Stores the study complete flag	Study level
(0073, 102E)	Filler Order ID	LO	1	Stores the Filler Order ID	Study level
(0073, 102F)	XDS Study ID	LO	1	Stores the XDS study ID	Study level
(0073, 1030)	IntelliSpace PS Version	ST	1	stores the version of the IntelliSpace private presentation state data in (0073,101E)	Used for GSPS that contains the IntelliSpace private PS
(0073, 1031)	IntelliSpace PS Collection Window Information	SQ	1	Stores the collection window information into presentation state	Study level
(0073, 1032)	Collection Window Type	ST	1	Stores the type if the collection window	Study level
(0073, 1033)	Collection Data	SQ	1	Stores the collection specific data within the collection sequence	Study level
(0073, 2000)	IntelliSpace PS Annotation Graphics Type	ST	1	Stores in presentation state the kind of annotation that is defined by the given graphic objects	Instance level
(0073, 2001)	IntelliSpace PS Annotation Font	ST	1	Stores in presentation state the font used for the annotation	Instance level
(0073, 2002)	IntelliSpace PS Annotation Line Style	ST	1	Stores in presentation state the line style used for the annotation	Instance level
(0073, 2003)	IntelliSpace PS Annotation Line Size	ST	1	Stores in presentation state the line size used for the annotation	Instance level
(0073, 2004)	IntelliSpace PS Column	FL	1	Store in presentation state the column pixel	Instance level

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Tag	Attribute Name	VR	VM	Attribute Description	Location
	Pixel Spacing			spacing for a manual calibration	
(0073, 2005)	IntelliSpace PS Row Pixel Spacing	FL	1	Store in presentation state the row pixel spacing for a manual calibration	Instance level
(0073, 2006)	IntelliSpace PS Annotation Modifiable	US	1	Stores in presentation state whether the annotation is modifiable	Instance level
(0073, 2007)	IntelliSpace PS Secondary graphics elements	SQ	1	Stores in presentation state secondary line information, including line style, line size and line color.	Instance level
(0073, 2008)	IntelliSpace PS Annotation Line Color	ST	1	Stores in presentation state the line color used for the annotation	Instance level
(0073, 2009)	IntelliSpace PS Graphics filled	ST	1	Stores in presentation state whether the graphics is filled	Instance level
(0073, 2010)	IntelliSpace PS Graphics Layer	ST	1	Stores in presentation state the graphics layer	Instance level

8.3. Coded Terminology and Templates

Not applicable.

8.4. Grayscale Image consistency

The high resolution display monitor attached to the product can be calibrated according to the Grayscale Standard Display Function (GSDf). The service/Installation Tool is used together with a luminance meter to measure the Characteristic Curve of the display system and the current ambient light. See the product Service Manual for details on the calibration procedure and supported calibration hardware. The result of the calibration procedure is a Monitor Correction LUT that will be active within the display subsystem after a system reboot.

8.5. Standard Extended/Specialized/Private SOPs

8.5.1. Standard Extended SOP's

The Raw Data Storage SOP Class – UID: 1.2.840.10008.5.1.4.1.1.66 is extended for exporting the IntelliSpace private Presentation State.

The SOP Class defines the usage of it for embedding the IntelliSpace presentation State, by the Creator-Version UID tag (0008,9123) with the defined value: 1.3.46.670589.42.100.1

The following set of mandatory DICOM attributes (type 1 and 2) will be populated in this extended DICOM Raw Object:

Table 151: Mandatory DICOM attributes (type 1 and 2)

DICOM Raw Data element	Name	Description
Patient		
0010,0010	Patient's Name	Patient's full name.
0010,0020	Patient ID	Primary hospital identification number or code for the patient.
0010,0030	Patient's Birth	Birth date of the patient.
0010,0040	Date	Sex of the named patient.
	Patient's Sex	
Study		
0008,0020	Study Date	Date the Study started.

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DICOM Raw Data element	Name	Description
0008,0030	Study Time	Time the Study started.
0008,0050	Accession Number	A RIS generated number that identifies the order for the Study.
0008,0090	Referring Physician's Name	Name of the patient's referring physician
0020,000D	Study Instance UID	Unique identifier for the Study.
0020,0010	Study ID	User or equipment generated Study identifier.
Series		
0008,0060	Modality	Defined term for the modality
0020,000E	Series Instance UID	Unique identifier of the Series. Taken from the IntelliSpace PS
0020,0011	Series Number	A number that identifies this Series.
Equipment		
0008,0070	Manufacturer	Manufacturer of the equipment that produced the composite instances.
Raw Data		
0008,0016	SOP Class UID	Uniquely identifies the SOP Class.
0008,0018	SOP Instance UID	Uniquely identifies the SOP Instance.
0008,0023	Content Date	The date the raw data creation was started.
0008,0033	Content Time	The time the raw data creation was started.
0008,9123	Creator-Version UID	Unique identification of the equipment and version of the software that has created the Raw Data information. The UID allows one to avoid attempting to interpret raw data with an unknown format.
0020,0013	Instance Number	A number that identifies this raw data. The value shall be unique within a series.
0040,0555	Acquisition Context Sequence	A sequence of Items that describes the conditions present during the acquisition of the data of the SOP Instance. Zero or more items may be included in this sequence.

The following tags will be added to the DICOM Raw Data Object as the *content* of the IntelliSpace PS. The full IntelliSpace PS is present.

Table 152: Raw Data Tags containing the IntelliSpace PS data

Raw Data Tag	Description	IntelliSpace PS source tag	Description
0070,0080	DICOM Content Level	0070,0080	Content Label
0070,0081	DICOM Content Description	0070,0081	Content Description
0070,0082	Presentation Creation Date	0070,0082	Presentation Creation Date
0070,0083	Presentation Creation Time	0008,0013	Instance Creation Time of SOP Instance
0070,0084	Content Creator Name	0008,1070	Operators Name
0073,101E (String)	Embedded IntelliSpace PS	N.A.	Serialized IntelliSpacePS xml
0073,101F (String)	IntelliSpace Presentation type	0018,1030	Protocol Name
			"Technologist"= PSDescriptor::Technologist
			"Radiologist"= PSDescriptor::Radiologist
			"PreRead"= PSDescriptor::PreRead
			"User"= PSDescriptor::User
			"Conference"= PSDescriptor::Conference
			"ReferenceCPS"= PSDescriptor::ReferenceCPS

8.5.2. Standard Specialized SOP's

None.

8.5.3. Private SOP's

IntelliSpace PACS support the DICOM C-STORE SCP to receive this private SOP Classes from Philips Clinical Application Workstation and it also support the C-STORE SCU to export these private SOP Classes to other workstation / archive systems.

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Table 153: Private SOP Classes used in IntelliSpace PACS

SOP Class Name	SOP Class UID
GE Nuclear Medicine private SOP Class	1.2.840.113619.4.27
Philips Private EasyVision 3D Volume Object Storage	1.3.46.670589.5.0.2
Philips Private EasyVision MR Cardio Analysis Storage	1.3.46.670589.5.0.11
Philips Private EasyVision MR Cardio Storage	1.3.46.670589.5.0.8
Philips Private EasyVision Surface Storage	1.3.46.670589.5.0.3
Philips Private EasyVision Volume Storage	1.3.46.670589.5.0.1
Philips Private iE33 3D NEO Presentation State Subpage Storage	1.3.46.670589.2.5.1.1
Philips Private MR Cardio Profile Image Storage	1.3.46.670589.5.0.7
Philips Private MR Series Data Storage	1.3.46.670589.11.0.0.12.2
Philips Private MR Spectrum Storage	1.3.46.670589.11.0.0.12.1
Philips Private Reconstructed X-ray Storage	1.3.46.670589.2.4.1.1
Philips Private ViewForum 3D Volume New Storage	1.3.46.670589.5.0.1.1
Philips Private ViewForum 3D Volume Object New Storage	1.3.46.670589.5.0.2.1
Philips Private ViewForum CT Synthetic Image Storage	1.3.46.670589.5.0.9
Philips Private ViewForum CX Synthetic Image Storage	1.3.46.670589.5.0.12
Philips Private ViewForum MR Cardio Analysis New Storage	1.3.46.670589.5.0.11.1
Philips Private ViewForum MR Cardio New Storage	1.3.46.670589.5.0.8.1
Philips Private ViewForum MR Synthetic Image Storage	1.3.46.670589.5.0.10
Philips Private ViewForum Perfusion Analysis Storage	1.3.46.670589.5.0.14
Philips Private ViewForum Perfusion Storage	1.3.46.670589.5.0.13
Philips Private ViewForum Surface New Storage	1.3.46.670589.5.0.3.1
Philips Private X-Ray Image Storage	1.3.46.670589.2.3.1.1

8.6. Private Transfer Syntaxes

Not applicable.

PRICE ADJUSTMENTS

A NON-FIRM PRICES SUBJECT TO ESCALATION

1. IN CASES OF PERIOD CONTRACTS, NON-FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES

2. IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

$$Pa = (1 - V)Pt \left(D1 \frac{R1t}{R1o} + D2 \frac{R2t}{R2o} + D3 \frac{R3t}{R3o} + D4 \frac{R4t}{R4o} \right) + VPt$$

Where:

Pa	=	The new escalated price to be calculated.
(1-V)Pt	=	85% of the original bid price. Note that Pt must always be the original bid price and not an escalated price.
D1, D2..	=	Each factor of the bid price eg. labour, transport, clothing, footwear, etc. The total of the various factors D1, D2...etc. must add up to 100%.
R1t, R2t..... used).	=	Index figure obtained from new index (depends on the number of factors used).
R1o, R2o	=	Index figure at time of bidding.
VPt	=	15% of the original bid price. This portion of the bid price remains firm i.e. it is not subject to any price escalations.

3. The following index/indices must be used to calculate your bid price:

Index..... Dated..... Index..... Dated..... Index..... Dated.....

Index..... Dated..... Index..... Dated..... Index..... Dated.....

4. FURNISH A BREAKDOWN OF YOUR PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTOR (D1, D2 etc. eg. Labour, transport etc.)	P PERCENTAGE OF BID PRICE

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B PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS

1. Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		
				ZAR=		

2. Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE

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**PROVINCIAL GOVERNMENT WESTERN CAPE
DECLARATION OF INTERESTS, BIDDERS PAST SCM PRACTICES AND INDEPENDENT BID
DETERMINATION**

1. To give effect to the requirements of the Western Cape Provincial Treasury Instructions, 2019: Supply Chain Management (Goods and Services), Practice Note 4 of 2006 Declaration of Bidders Past SCM Practices-(SDB8), Instruction note Enhancing Compliance Monitoring and Improving Transparency and Accountability in Supply Chain Management, Practice note 7 of 2009/10 - SBD 4 Declaration of Interest, Practice Note 2010 Prohibition of Restrictive practices SBD9, Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998 as amended together with its associated regulations, the Prevention and Combating of Corrupt Activities Act No 12 of 2004 and regulations pertaining to the tender defaulters register, Paragraph 16A9 of the National Treasury Regulations and/or any other applicable legislation.
2. All prospective bidders intending to do business with the Institution must be registered on the Central Supplier Database (CSD) and the Western Cape Supplier Evidence Bank (WCSEB) if they wish to do business with the Western Cape Government (WCG) via the electronic Procurement Solution (ePS).

3. Definitions

"bid" means a bidder's response to an institution's invitation to participate in a procurement process which may include a bid, price quotation or proposal;

"Bid rigging (or collusive bidding)" occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and/or services through a bidding process. Bid rigging is, therefore, an agreement between competitors;

"business interest" means -

- a) a right or entitlement to share in profits, revenue or assets of an entity;
- b) a real or personal right in property;
- c) a right to remuneration or any other private gain or benefit, or
- d) includes any interest contemplated in paragraphs (a), (b) or (c) acquired through an intermediary and any potential interest in terms of any of those paragraphs;

"Consortium or Joint Venture" means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract;

"Corruption"- General offences of corruption are defined in the Combating of Corrupt Activities Act, 2004 (Act No 12 of 2004) as:

Any person who directly or indirectly-

- (a) accepts or agrees or offers to accept an! gratification from any other person, whether for the benefit of himself or herself or for the benefit of another person; or
- (b) gives or agrees or offers to give to any other person any gratification, whether for the benefit of that other person or for the benefit of another person., in order to act personally or by influencing another person so to act, in a manner—

If you know of any corrupt, fraudulent or collusive actions in the Institution, please report it by calling the National Hotline 0800 701 701

This form must be completed annually. Should the information herein declared change in the course of the year or before the next renewal or in relation to any bid, quotation or contract, it is the entity's responsibility to advise the Institution in writing of the change in such details.

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- (i) that amounts to the-
 - (aa) illegal, dishonest, unauthorised, incomplete, or biased; or
 - (bb) misuse or selling of information or material acquired in the course of the exercise, carrying out or performance of any powers, duties or functions arising out of a constitutional, statutory, contractual or any other legal obligation;
- (ii) that amounts to-
 - (aa) the abuse of a position of authority;
 - (bb) a breach of trust; or
 - (cc) the violation of a legal duty or a set of rules;
- (iii) designed to achieve an unjustified result; or
- (iv) that amounts to any other unauthorised or improper inducement to do or 45 not to do anything, of the, is guilty of the offence of corruption

"CSD" means the Central Supplier Database maintained by National Treasury;

"employee", in relation to –

- (a) a department, means a person contemplated in section 8 of the Public Service Act, 1994 but excludes a person appointed in terms of section 12A of that Act; and
- (b) a public entity, means a person employed by the public entity;

"entity" means any -

- (a) association of persons, whether or not incorporated or registered in terms of any law, including a company, corporation, trust, partnership, close corporation, joint venture or consortium; or
- (b) sole proprietorship;

"entity conducting business with the Institution" means an entity that contracts or applies or tenders for the sale, lease or supply of goods or services to the Province;

"Family member" means a person's –

- (a) spouse; or
- (b) child, parent, brother, sister, whether such a relationship results from birth, marriage or adoption or some other legal arrangement (as the case may be);

"intermediary" means a person through whom an interest is acquired, and includes a representative or agent or any other person who has been granted authority to act on behalf of another person;

"Institution" means –

a provincial department or provincial public entity listed in Schedule 3C of the Act;

"Provincial Government Western Cape (PGWC)" means

- (a) the Institution of the Western Cape, and
- (b) a provincial public entity;

"RWOEE" means -

Remunerative Work Outside of the Employee's Employment

If you know of any corrupt, fraudulent or collusive actions in the Institution, please report it by calling the National Hotline 0800 701 701

This form must be completed annually. Should the information herein declared change in the course of the year or before the next renewal or in relation to any bid, quotation or contract, it is the entity's responsibility to advise the Institution in writing of the change in such details.

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“spouse” means a person's -

(a) partner in marriage or civil union according to legislation;

(b) partner in a customary union according to indigenous law; or

(c) partner with whom he or she cohabits and who is publicly acknowledged by the person as his or her life partner or permanent companion.

4. Regulation 13(c) of the Public Service Regulations (PSR) 2016, effective 1 February 2017, prohibits any employee from conducting business with an organ of state, or holding a directorship in a public or private company doing business with an organ of state unless the employee is a director (in an official capacity) of a company listed in schedules 2 and 3 of the Public Finance Management Act.
 - a) Therefore, by 31 January 2017 all employees who are conducting business with an organ of state should either have:
 - (i) resigned as an employee of the government institution or;
 - (ii) cease conducting business with an organ of state or;
 - (iii) resign as a director/shareholder/owner/member of an entity that conducts business with an organ of state.
5. Any legal person, or their family members, may make an offer or offers in terms of this invitation to bid. In view of potential conflict of interest, in the event that the resulting bid, or part thereof, be awarded to family members of persons employed by an organ of state, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where the bidder is employed by the Institution
6. The bid of any bidder may be disregarded if that bidder or any of its directors abused the institution's supply chain management system; committed fraud or any other improper conduct in relation to such system; or failed to perform on any previous contract.
7. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging). Collusive bidding is a per se prohibition meaning that it cannot be justified under any grounds.
8. Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorises accounting officers and accounting authorities to:
 - a) disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b) cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
9. Communication between partners in a joint venture or consortium will not be construed as collusive bidding.
10. In addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

If you know of any corrupt, fraudulent or collusive actions in the Institution, please report it by calling the National Hotline 0800 701 701

This form must be completed annually. Should the information herein declared change in the course of the year or before the next renewal or in relation to any bid, quotation or contract, it is the entity's responsibility to advise the Institution in writing of the change in such details.

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SECTION A: DETAILS OF THE ENTITY	
CSD Registration Number	MAAA
Name of the Entity	
Entity registration Number (where applicable)	
Entity Type	
Tax Reference Number	
Full details of directors, shareholder, member, partner, trustee, sole proprietor or any persons with a right or entitlement to share in profits, revenue or assets of the entity should be disclosed in the Table A below.	

TABLE A

FULL NAME	DESIGNATION: (Where a director is a shareholder, both should be confirmed)	IDENTITY NUMBER	PERSONAL TAX REFERENCE NO.	PERCENTAGE INTEREST IN THE ENTITY

If you know of any corrupt, fraudulent or collusive actions in the Institution, please report it by calling the National Hotline 0800 701 701

This form must be completed annually. Should the information herein declared change in the course of the year or before the next renewal or in relation to any bid, quotation or contract, it is the entity's responsibility to advise the Institution in writing of the change in such details.

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SECTION B: DECLARATION OF THE BIDDER'S INTEREST

The supply chain management system of an institution must, irrespective of the procurement process followed, prohibit any award to an employee of the state, who either individually or as a director of a public or private company or a member of a close corporation, seek to conduct business with the WCG, unless such employee is in an official capacity a director of a company listed in Schedule 2 or 3 of the PFMA as prescribed by the Public Service Regulation 13 (c).

Furthermore, an employee employed by an organ of state conducting remunerative work outside of the employee's employment should first obtain the necessary approval by the delegated authority (RWOEE), failure to submit proof of such authority, where applicable, may result in disciplinary action.

B1.	Are any persons listed in Table A identified on the CSD as employees of an organ of state? (If yes, refer to Public Service Circular EIM 1/2016 to exercise the listed actions)	NO	YES
B2.	Are any employees of the entity also employees of an organ of state? (If yes complete Table B and attach their approved "RWOEE")	NO	YES
B3.	Are any family members of the persons listed in Table A employees of an organ of state? (If yes complete Table B)	NO	YES

TABLE B

Details of persons (family members) connected to or employees of an organ of state should be disclosed in Table B below.

FULL NAME OF EMPLOYEE	IDENTITY NUMBER	DEPARTMENT/ ENTITY OF EMPLOYMENT	DESIGNATION/ RELATIONSHIP TO BIDDER**	INSTITUTION EMPLOYEE NO./ PERSAL NO. (Indicate if not known)

If you know of any corrupt, fraudulent or collusive actions in the Institution, please report it by calling the National Hotline 0800 701 701

This form must be completed annually. Should the information herein declared change in the course of the year or before the next renewal or in relation to any bid, quotation or contract, it is the entity's responsibility to advise the Institution in writing of the change in such details.

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SECTION C: PERFORMANCE MANAGEMENT AND BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

To enable the prospective bidder to provide evidence of past and current performance.

C1.	Did the entity conduct business with an organ of state in the last twelve months? (If yes complete Table C)	NO	YES
------------	--	----	-----

C2. TABLE C

Complete the below table to the maximum of the last 5 contracts.

NAME OF CONTRACTOR	PROVINCIAL DEPARTMENT OR PROVINCIAL ENTITY	TYPE OF SERVICES OR COMMODITY	CONTRACT/ ORDER NUMBER	PERIOD OF CONTRACT	VALUE OF CONTRACT	
C3. Is the entity or its principals listed on the National Database as companies or persons prohibited from doing business with the public sector?					NO	YES
C4. Is the entity or its principals listed on the National Treasury Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No. 12 of 2004)?					NO	YES
<i>(To access this Register enter the National Treasury's website, www.treasury.gov.za, click on the icon "Register for Tender Defaulters" or submit your written request for a hard copy of the Register to facsimile number (012) 326 5445.)</i>						
C5. If yes to C3 or C4, were you informed in writing about the listing on the database of restricted suppliers or Register for Tender Defaulters by National Treasury?				NO	YES	N/A
C6. Was the entity or persons listed in Table A convicted for fraud or corruption during the past five years in a court of law (including a court outside the Republic of South Africa)?					NO	YES
C7. Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?					NO	YES

If you know of any corrupt, fraudulent or collusive actions in the Institution, please report it by calling the National Hotline 0800 701 701

This form must be completed annually. Should the information herein declared change in the course of the year or before the next renewal or in relation to any bid, quotation or contract, it is the entity's responsibility to advise the Institution in writing of the change in such details.

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SECTION D: DULY AUTHORISED REPRESENTATIVE TO DEPOSE TO AFFIDAVIT

This form must be signed by a duly authorised representative of the entity in the presence of a commissioner of oaths.

I,hereby swear/affirm;

- i. that the information disclosed above is true and accurate;
- ii. that I understand the content of the document;
- iii. the entity undertakes to independently arrive at any offer at any time to the Institution without any consultation, communication, agreement or arrangement with any competitor. In addition, that there will be no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to the Institution.
- iv. that the entity or its representative are aware of and undertakes not to disclose the terms of any bid, formal or informal, directly or indirectly, to any competitor, prior to the awarding of the contract.

.....**DULY**

AUTHORISED REPRESENTATIVE'S SIGNATURE

I certify that before administering the oath/affirmation I asked the deponent the following questions and wrote down his/her answers in his/her presence:

- 1.1 Do you know and understand the contents of the declaration? ANSWER:
- 1.2 Do you have any objection to taking the prescribed oath? ANSWER:
- 1.3 Do you consider the prescribed oath to be binding on your conscience? ANSWER:
- 1.4 Do you want to make an affirmation? ANSWER:

2. I certify that the deponent has acknowledged that he/she knows and understands the contents of this declaration, which was sworn to/affirmed and the deponent's signature/thumbprint/mark was placed thereon in my presence.

.....
SIGNATURE FULL NAMES Commissioner of Oaths

Designation (rank) ex officio: Republic of South Africa

Date: Place
.....

Business Address:
.....

If you know of any corrupt, fraudulent or collusive actions in the Institution, please report it by calling the National Hotline 0800 701 701

This form must be completed annually. Should the information herein declared change in the course of the year or before the next renewal or in relation to any bid, quotation or contract, it is the entity's responsibility to advise the Institution in writing of the change in such details.

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PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022 AND IN TERMS OF THE WESTERN CAPE GOVERNMENTS INTERIM STRATEGY AS IT RELATES TO PREFERENCE POINTS

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS (TENDERERS) MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER, PREFERENTIAL PROCUREMENT REGULATIONS, 2022 AND THE BROAD BASED BLACK ECONOMIC EMPOWERMENT ACT AND THE CODES OF GOOD PRACTICE

1. DEFINITIONS

- 1.1 **"acceptable tender"** means any tender which, in all respects, complies with the specifications and conditions of tender as set out in the tender document.
- 1.2 **"affidavit"** is a type of verified statement or showing, or in other words, it contains a verification, meaning it is under oath or penalty of perjury, and this serves as evidence to its veracity and is required for court proceedings.
- 1.3 **"all applicable taxes"** includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- 1.4 **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- 1.5 **"B-BBEE status level of contributor"** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 1.6 **"bid"** means a written offer on the official bid documents or invitation of price quotations and "tender" is the act of bidding /tendering;
- 1.7 **"Code of Good Practice"** means the generic codes or the sector codes as the case may be;
- 1.8 **"consortium or joint venture"** means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract;
- 1.9 **"contract"** means the agreement that results from the acceptance of a bid by an organ of state;

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- 1.10 **"EME"** is an Exempted Micro Enterprise with an annual total revenue of R10 million or less.
- 1.11 **"Firm price"** means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 1.12 **"Large Enterprise"** is any enterprise with an annual total revenue above R50 million;
- 1.13 **"non-firm prices"** means all prices other than "firm" prices;
- 1.14 **"person"** includes a juristic person;
- 1.15 **"price"** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- 1.16 **"proof of B-BBEE status level contributor"** means-
- (a) The B-BBEE status level certificate issued by an authorized body or person;
 - (b) A sworn affidavit as prescribed in terms of the B-BBEE Codes of Good Practice; or
 - (c) Any other requirement prescribed in terms of the Broad- Based Black Economic Empowerment Act.
- 1.17 **QSE** is a Qualifying Small Enterprise with an annual total revenue between R10 million and R50 million;
- 1.18 **"rand value"** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- 1.19 **"sub-contract"** means the primary contractor's assigning, leasing, making out work to, or employing, another person to support such primary contractor in the execution of part of a project in terms of the contract.
- 1.20 **"tender"** means a written offer in the form determined by an organ of state in response to an invitation to provide or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- 1.21 **"tender for income-generating contracts"** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions;
- 1.22 **"the Act"** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000);
- 1.23 **"the Regulations"** means the Preferential Procurement Regulations, 2022;

- 1.24 **"total revenue"** bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act and promulgated in the Government Gazette on 11 October 2013;
- 1.25 **"trust"** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- 1.26 **"trustee"** means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

2. GENERAL CONDITIONS

2.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

2.2 Preference point system for this bid:

- (a) The value of this bid is estimated to exceed/not exceed R50 000 000 (all applicable taxes included) and therefore the.....preference point system shall be applicable; or
- (b) Either the 80/20 or 90/10 preference point system will be applicable to this tender
(delete whichever is not applicable for this tender).

2.3 Preference points for this bid (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contribution.

2.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

2.5 Failure on the part of a bidder to fill in, sign this form and submit in the circumstances prescribed in the Codes of Good Practice either a B-BBEE Verification Certificate issued by a Verification Agency accredited by the South African Accreditation System (SANAS) or an affidavit confirming annual total revenue and level of black ownership together with the bid or an affidavit issued by Companies Intellectual Property Commission, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

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- 2.6 The organ of state reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 Subject to Section 2 (1) (f) of the Preferential Procurement Policy Framework Act, 2000, **the bidder obtaining the highest number of total points will be awarded the contract.**
- 3.2 A tenderer must submit proof of its B-BBEE status level of contributor in order to claim points for B-BBEE.
- 3.3 A tenderer failing to submit proof of B-BBEE status level of contributor or is a non-compliant contributor to B-BBEE will not be disqualified but will only score:
- (a) points out of 80 for price; and
 - (b) 0 points out of 20 for B-BBEE
- 3.4 Points scored must be rounded off to the nearest 2 decimal places.
- 3.5 In the event that two or more bids have scored equal total points, the successful bid must be the one scoring the highest number of preference points for B-BBEE.
- 3.6 As per section 2 (1) (f) of the Preferential Procurement Policy Framework Act, 2000, the contract may be awarded to a bidder other than the one scoring the highest number of total points based on objective criteria in addition to those contemplated in paragraph (d) and (e) of the Act that justifies the award to another tenderer provided that it has been stipulated upfront in the tendering conditions.
- 3.7 Should two or more bids be equal in all respects; the award shall be decided by the drawing of lots.

4. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

4.1 POINTS AWARDED FOR PRICE

4.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEM

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc}
 \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\
 Ps = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right) & \text{or} & Ps = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)
 \end{array}$$

Where:

Ps = Points scored for price of bid under consideration
 Pt = Price of tender under consideration
 Pmin = Price of lowest acceptable tender

5. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

5.1 POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20

or

90/10

$$P_s = 80 \left(1 + \frac{P_t - P_{max}}{P_{max}} \right)$$

$$P_s = 90 \left(1 + \frac{P_t - P_{max}}{P_{max}} \right)$$

or

Where

P_s = Points scored for price of tender under consideration

P_t = Price of tender under consideration

P_{max} = Price of highest acceptable tender

6. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION

6.1 In terms of WCG interim strategy, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

6.2 An **EME** must submit a valid, originally certified affidavit confirming annual turnover and level of black ownership or an affidavit issued by Companies Intellectual Property Commission

6.3 A **QSE that is less than 51% (50% or less) black owned** must be verified in terms of the QSE scorecard issued via Government Gazette and submit a valid, original or a legible certified copy of a B-BBEE Verification Certificate issued by SANAS.

6.4 A **QSE that is at least 51% black owned (51% or higher)** must submit a valid, originally certified affidavit confirming turnover and level of black ownership as well as declare its empowering status or an affidavit issued by Companies Intellectual Property Commission.

- 6.5 A **large enterprise** must submit a valid, original or originally certified copy of a B-BBEE Verification Certificate issued by a verification agency accredited by SANAS.
- 6.6 A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.
- 6.7 A trust, consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE status level verification certificate for every separate tender.
- 6.8 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.

7. BID DECLARATION

- 7.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

8. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPH 5

- 8.1 B-BBEE Status Level of Contribution= (maximum of 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or an affidavit confirming annual total revenue and level of black ownership in terms of the relevant sector code applicable to the tender.

9. SUB-CONTRACTING

- 9.1 Will any portion of the contract be sub-contracted? **YES / NO (delete which is not applicable)**

- 9.1.1 If yes, indicate:

(i) what percentage of the contract will be subcontracted?%

(ii) the name of the sub-contractor?

(iii) the B-BBEE status level of the sub-contractor?

(iv) whether the sub-contractor is an EME or QSE? **YES / NO (delete which is not applicable)**

- 9.1.2 Sub-contracting relates to a particular contract and if sub-contracting is applicable, the bidder to state in their response to a particular RFQ that a portion of that contract will be sub-contracted.

10. DECLARATION WITH REGARD TO COMPANY/FIRM

- 10.1 Name of company/ entity:
- 10.2 VAT registration number:
- 10.3 Company Registration number:
- 10.4 TYPE OF COMPANY/ FIRM

- ☐ Partnership/ Joint Venture/ Consortium
- ☐ One-person business/ sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[SELECT APPLICABLE ONE]

- 10.5 **I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBEE status level of contribution indicated in paragraph 7 above, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:**

- (a) **The Western Cape Government reserves the right to audit the B-BBEE status claim submitted by the bidder.**
- (b) **As set out in Section 130 of the B-BBEE Act as amended, any misrepresentation constitutes a criminal offence. A person commits an offence if that person knowingly:**
- (i) **misrepresents or attempts to misrepresent the B-BBEE status of an enterprise;**
 - (ii) **provides false information or misrepresents information to a B-BBEE Verification Professional in order to secure a particular B-BBEE status or any benefit associated with compliance to the B-BBEE Act;**
 - (iii) **provides false information or misrepresents information relevant to assessing the B-BBEE status of an enterprise to any organ of state or public entity; or**
 - (iv) **engages in a fronting practice.**
- (c) **If a B-BBEE verification professional or any procurement officer or other official of an organ of state or public entity becomes aware of the commission of, or any attempt to commit any offence referred to in paragraph 9.1 (a) above will be reported to an appropriate law enforcement agency for investigation.**

- (d) Any person convicted of an offence by a court is liable in the case of contravention of 9.4 (b) to a fine or to imprisonment for a period not exceeding 10 years or to both a fine and such imprisonment or, if the convicted person is not a natural person to a fine not exceeding 10% of its annual turnover.
- (e) The purchaser may, if it becomes aware that a bidder may have obtained its B-BBEE status level of contribution on a fraudulent basis, investigate the matter. Should the investigation warrant a restriction be imposed, this will be referred to the National Treasury for investigation, processing and imposing the restriction on the National Treasury's List of Restricted Suppliers. The bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, may be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied.
- (f) The purchaser may, in addition to any other remedy it may have –
 - (i) disqualify the person from the bidding process;
 - (j) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (ii) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation; and
 - (iii) forward the matter for criminal prosecution.
- (g) The information furnished is true and correct.
- (h) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 2 of this form.

SIGNATURE(S) OF THE BIDDER(S):

DATE:

ADDRESS:

.....

WITNESSES:

1.

2.

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SWORN AFFIDAVIT – B-BBEE/QUALIFYING SMALL ENTERPRISE

1 I, the undersigned

Full name and surname	
Identity number	

2. Hereby declare under oath as follows:

- (i) The contents of this statement are to the best of my knowledge a true reflection of the facts.
- (ii) I am a member/director/owner of the following enterprise and am duly authorized to act on its behalf:

Enterprise name	
Trading name	
Registration number	
Enterprise address	

3. I hereby declare under oath that:

- The enterprise is _____ % Black owned;
- The enterprise is _____ % Black woman owned;
- Based on management accounts and other information available for the _____ financial year, the income did not exceed R50 000, 000.00 (fifty million Rands)
- The entity is an Empowering Supplier in terms of Clause 3.3 (a) or (b) or (c) or (d) r l as amended (select one) _____ of the **dti** Codes of Good Practice.
- Please confirm in the table below the B-BBEE contributor **by ticking the applicable box**.

100% Black owned	Level One (135% B-BBEE procurement recognition)	
More than 51% Black owned	Level Two (125% B-BBEE procurement recognition)	
a) At least 25% of cost of sales (excluding labour costs and depreciation) must be procurement from local producers or suppliers in South Africa; For the service industry, include labour costs capped at 15%.	b) At least 50% of jobs created are for Black people, provided that the number of Black employees in the B-BBEE measurement verified immediately before is maintained.	
c) At least 25% transformation of raw material/beneficiation, which includes local manufacturing, production and/or assembly, and/or packaging.	d) At least 12 days per annum of productivity deployed in assisting QSE end EME beneficiaries to increase their operational or financial capacity.	
e) At least 85% of labour costs should be paid to South African employees by service industry entities.		

4. I know and understand the content of this affidavit, I have no objection to taking the prescribed oath, I consider the oath binding on my conscience and not on the owners of the enterprise which I represent in this matter.

5. The sworn affidavit will be valid for a period of 12 months from the date of signature by the commissioner.

Deponent signature: _____

Date: _____

Commissioner of Oaths signature & stamp

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THE NATIONAL TREASURY
Republic of South Africa



GOVERNMENT PROCUREMENT

GENERAL CONDITIONS OF CONTRACT
July 2010

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GOVERNMENT PROCUREMENT
GENERAL CONDITIONS OF CONTRACT
July 2010

NOTES

The purpose of this document is to:

- (i) Draw special attention to certain general conditions applicable to government bids, contracts and orders; and
- (ii) To ensure that clients be familiar with regard to the rights and obligations of all parties involved in doing business with government.

In this document words in the singular also mean in the plural and vice versa and words in the masculine also mean in the feminine and neuter.

- The General Conditions of Contract will form part of all bid documents and may not be amended.
- Special Conditions of Contract (SCC) relevant to a specific bid, should be compiled separately for every bid (if applicable) and will supplement the General Conditions of Contract. Whenever there is a conflict, the provisions in the SCC shall prevail.

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General Conditions of Contract

1. Definitions

1. The following terms shall be interpreted as indicated:
 - 1.1 "Closing time" means the date and hour specified in the bidding documents for the receipt of bids.
 - 1.2 "Contract" means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - 1.3 "Contract price" means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
 - 1.4 "Corrupt practice" means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
 - 1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
 - 1.6 "Country of origin" means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
 - 1.7 "Day" means calendar day.
 - 1.8 "Delivery" means delivery in compliance of the conditions of the contract or order.
 - 1.9 "Delivery ex stock" means immediate delivery directly from stock actually on hand.
 - 1.10 "Delivery into consignees store or to his site" means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
 - 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.
 - 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

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- 1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 "GCC" means the General Conditions of Contract.
- 1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 "Local content" means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- 1.17 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 "Project site," where applicable, means the place indicated in bidding documents.
- 1.21 "Purchaser" means the organization purchasing the goods.
- 1.22 "Republic" means the Republic of South Africa.
- 1.23 "SCC" means the Special Conditions of Contract.
- 1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.
- 1.25 "Written" or "in writing" means handwritten in ink or any form of electronic or mechanical writing.

2. Application

- 2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.

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2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.

25.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.

3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za

4. Standards

4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

5. Use of contract documents and information; inspection.

5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.

5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.

5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent rights

6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.

7. Performance security

7.1 Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.

7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.

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- 7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:
- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
 - (b) a cashier's or certified cheque
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the

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purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.

- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

- 10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.
- 10.2 Documents to be submitted by the supplier are specified in SCC.

11. Insurance

- 11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

12. Transportation

- 12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

13. Incidental services

- 13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
 - (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
 - (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

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- 13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

- 14.1 As specified in SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:
- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
 - (b) in the event of termination of production of the spare parts:
 - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

- 15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (17) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.
- 15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.
- 15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

- 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.

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- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.
- 16.4 Payment will be made in Rand unless otherwise stipulated in SCC.
- 17. Prices**
- 17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized in SCC or in the purchaser's request for bid validity extension, as the case may be.
- 17. Contract amendments**
- 17.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.
- 19. Assignment**
- 19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.
- 20. Subcontracts**
- 20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contracts if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.
- 21. Delays in the supplier's performance**
- 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.
- 21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the

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supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.

- 21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

- 22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

23. Termination for default

- 23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
 - (b) if the Supplier fails to perform any other obligation(s) under the contract; or
 - (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.
- 23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.
- 23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen

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(14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

- 23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion of the Accounting Officer / Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the

enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the Accounting Officer / Authority actively associated.

- 23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
- (i) the name and address of the supplier and / or person restricted by the purchaser;
 - (ii) the date of commencement of the restriction
 - (iii) the period of restriction; and
 - (iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

- 23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years.

The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

24. Anti-dumping and countervailing duties and rights

- 24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the contractor to the State or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him

25. Force Majeure

- 25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his

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delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.

- 25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

**26. Termination
for insolvency**

- 26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

**27. Settlement of
Disputes**

- 27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.
- 27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.
- 27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.
- 27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.
- 27.5 Notwithstanding any reference to mediation and/or court proceedings herein,
- (a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
 - (b) the purchaser shall pay the supplier any monies due the supplier.

**28. Limitation of
liability**

- 28.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement pursuant to Clause 6:
- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and

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(b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

29. Governing language

29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

30. Applicable law

30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.

31. Notices

31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice

31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

32. Taxes and duties

32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.

32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.

32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder.

This certificate must be an original issued by the South African Revenue Services.

33. National Industrial Participation (NIP) Programme

33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.

34. Prohibition of Restrictive practices

34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).

34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.

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- 34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

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