

GE HEALTHCARE
STATEMENT

DIRECTION DOC2652554 REV 3

<p>2D/IVC Alias: IVC</p>	<p>(18006-7, LN, “Inferior Vena Cava Diameter”)</p>	<p>(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode</p>
<p>2D/SVC Diam Ins Alias: SVC Diam Ins</p>	<p>(18007-5, LN, “Superior Vena Cava Diameter”)</p>	<p>(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (R-40899, SRT, “Respiratory Cycle Point”) = (F-20010, SRT, “During Inspiration”)</p>
<p>2D/SVC DIAM Exp Alias: AVC Diam Exp</p>	<p>(18007-5, LN, “Superior Vena Cava Diameter”)</p>	<p>(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (R-40899, SRT, “Respiratory Cycle Point”) = (F-20020, SRT, “During Expiration”)</p>
<p>2D/IVC Collapse Index Alias: IVC Collapse Index</p>	<p>(18050-5, LN, “Inferior Vena Cava % Collapse”)</p>	
<p>2D/SVC Collapse Index Alias: SVC Collapse Index</p>	<p>(GEU-106-0133, 99GEMS, “Superior Vena Cava % Collapse”)</p>	

Section Cardiac Shunt Study

<p>GEU Parameter ID (and corresponding alias)</p>	<p>Base Measurement Concept Name</p>	<p>Concept or Acquisition Context Modifier</p>
<p>Qp/Qs Alias: Qp/Qs</p>	<p>(29462-9, LN, “Pulmonary-to-Systemic Shunt Flow Ratio”)</p>	
<p>Systemic VTI Alias: Systemic VTI</p>	<p>(20354-7, LN, “Velocity Time Integral”)</p>	<p>(G-C048, SRT, “Direction of Flow”) = (F-32330, SRT, “Left to right cardiovascular shunt”)</p>
<p>Pulmonic VTI Alias: Pulmonic VTI</p>	<p>(20354-7, LN, “Velocity Time Integral”)</p>	<p>(G-C048, SRT, “Direction of Flow”) = (F-32340, SRT, “Right to left cardiovascular shunt”)</p>

Section Congenital Anomaly of Cardiovascular System

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GEU Parameter ID (and corresponding alias)	Base Measurement Concept Name	Concept or Acquisition Context Modifier
<p>2D/ASD Diam Alias: ASD Diam</p>	<p>(G-038F, SRT, “Cardiovascular Orifice Diameter”)</p>	<p>(G-C0E3, SRT, “Finding Site”) = (D4-31220, SRT, “Atrial Septal Defect”) (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode</p>
<p>2D/VSD Diam Alias: VSD Diam</p>	<p>(G-038F, SRT, “Cardiovascular Orifice Diameter”)</p>	<p>(G-C0E3, SRT, “Finding Site”) = (D4-31150, SRT, “Ventricular Septal Defect”) (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode</p>
<p>2D/Pre Ductal Alias: Pre Ductal</p>	<p>(M-02550, SRT, “Diameter”)</p>	<p>(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (G-C0E3, SRT, “Finding Site”) = (T-42340, SRT, “Preductal region of aortic arch”)</p>
<p>2D/Post Ductal Alias: Post Ductal</p>	<p>(M-02550, SRT, “Diameter”)</p>	<p>(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (G-C0E3, SRT, “Finding Site”) = (T-42350, SRT, “Postductal region of aortic arch”)</p>
<p>2D/Systemic Diam Alias: Systemic Diam</p>	<p>(M-02550, SRT, “Diameter”)</p>	<p>(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (G-C0E3, SRT, “Finding Site”) = (T-32550, SRT, “Right Ventricle Outflow Tract”)</p>

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<p>2D/Pulmonic Diam Alias: Pulmonic Diam</p>	<p>(M-02550, SRT, “Diameter”)</p>	<p>(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)</p>
<p>VSD Vmax Alias: VSD Vmax</p>	<p>(11726-7, LN, “Peak Velocity”)</p>	<p>(G-C0E3, SRT, “Finding Site”) = (D4-31150, SRT, “Ventricular Septal Defect”)</p>
<p>VSD maxPG Alias: VSD maxPG</p>	<p>(20247-3, LN, “Peak Gradient”)</p>	<p>(G-C0E3, SRT, “Finding Site”) = (D4-31150, SRT, “Ventricular Septal Defect”)</p>
<p>ASD Vmax Alias: ASD Vmax</p>	<p>(11726-7, LN, “Peak Velocity”)</p>	<p>(G-C0E3, SRT, “Finding Site”) = (D4-31220, SRT, “Atrial Septal Defect”)</p>
<p>ASD maxPG Alias: ASD maxPG</p>	<p>(20247-3, LN, “Peak Gradient”)</p>	<p>(G-C0E3, SRT, “Finding Site”) = (D4-31220, SRT, “Atrial Septal Defect”)</p>
<p>Systemic HR Alias: Systemic HR</p>	<p>(8867-4, LN, “Heart rate”)</p>	<p>(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32550, SRT, “Right Ventricle Outflow Tract”)</p>
<p>Systemic Vmax Alias: Systemic Vmax</p>	<p>(11726-7, LN, “Peak Velocity on systemic side”)</p>	<p>(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32550, SRT, “Right Ventricle Outflow Tract”)</p>
<p>Systemic Vmean Alias: Systemic Vmean</p>	<p>(20352-1, LN, “Mean Velocity on systemic side”)</p>	<p>(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32550, SRT, “Right Ventricle Outflow Tract”)</p>
<p>Systemic maxPG Alias: Systemic maxPG</p>	<p>(20247-3, LN, “MPeak Gradient on systemic side”)</p>	<p>(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed»)</p>

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		(G-C0E3, SRT, “Finding Site”) = (T-32550, SRT, “Right Ventricle Outflow Tract”)
Systemic meanPG Alias: Systemic meanPG	(20256-4, LN, “Mean Gradient on systemic side”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32550, SRT, “Right Ventricle Outflow Tract”)
Systemic SV Alias: Systemic SV	(F-32120, SRT, “Stroke Volume on systemic side”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32550, SRT, “Right Ventricle Outflow Tract”)
Systemic CO Alias: Systemic CO	(F-32100, SRT, “Cardiac Output on systemic side”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32550, SRT, “Right Ventricle Outflow Tract”)
Systemic Env.Ti Alias: Systemic Env.Ti	(GEU-106-0090, 99GEMS, “Time duration of the VTI trace on Systemic side flow”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32550, SRT, “Right Ventricle Outflow Tract”)
Pulmonic HR Alias: Pulmonic HR	(8867-4, LN, “Heart rate”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)
Pulmonic Vmax Alias: Pulmonic Vmax	(11726-7, LN, “Peak Velocity on pulmonic side”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)

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		(G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)
Pulmonic Vmean Alias: Pulmonic Vmean	(20352-1, LN, “Mean Velocity on pulmonic side”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)
Pulmonic maxPG Alias: Pulmonic maxPG	(20247-3, LN, “Peak Gradient on pulmonic side”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)
Pulmonic meanPG Alias: Pulmonic meanPG	(20256-4, LN, “Mean Gradient on pulmonic side”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)
Pulmonic SV Alias: Pulmonic SV	(F-32120, SRT, “Stroke Volume on pulmonic side”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)
Pulmonic CO Alias: Pulmonic CO	(F32100, SRT, “Cardiac Output on pulmonic side”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)
Pulmonic Env.Ti Alias: Pulmonic Env.Ti	(GEU-106-0091, 99GEMS, “Time duration of the VTI trace on Pulmonic side flow”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C0E3, SRT, “Finding Site”) = (T-32650, SRT, “Left Ventricle Outflow Tract”)
Coarctation/Post-Ductal	(17995-2, LN, “Thoracic Aorta Coarctation Systolic	

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Alias: Coarctation Post Ductal	Peak Instantaneous Gradient")	
Coarctation/Post-Ductal PG Alias: Coarctation Post Ductal PG	(20256-4, LN, "Mean Gradient")	(G-C0E3, SRT, "Finding Site") = (D4-32030, SRT, "Thoracic Aortic Coarctation")
Coarctation/Pre-Ductal Alias: Pre-Ductal	(GEU-106-0107, 99GEMS, "Peak Velocity in the Pre-Ductal area of the Aortic Coarctation")	(G-C0E3, SRT, "Finding Site") = (D4-32030, SRT, "Thoracic Aortic Coarctation")
Coarctation/Pre-Ductal PG Alias: Pre-Ductal PG	(GEU-106-0108, 99GEMS, "Maximum Pressure Gradient in the Pre-Ductal area of the Aortic Coarctation")	(G-C0E3, SRT, "Finding Site") = (D4-32030, SRT, "Thoracic Aortic Coarctation")
ASD Vmean Alias: ASD Vmean	(20352-1, LN, "Mean Velocity")	(G-C0E3, SRT, "Finding Site") = (D4-31220, SRT, "Atrial Septal Defect")
ASD meanPG Alias: ASD meanPG	(20256-4, LN, "Mean Gradient")	(G-C0E3, SRT, "Finding Site") = (D4-31220, SRT, "Atrial Septal Defect")
ASD Env. Ti Alias: ASD Env. Ti	(GEU-106-0132, 99GEMS, "Time duration of the VTI trace")	(G-C0E3, SRT, "Finding Site") = (D4-31220, SRT, "Atrial Septal Defect")
ASD VTI Alias: ASD VTI	(20354-7, LN, "Velocity Time Integral")	(G-C0E3, SRT, "Finding Site") = (D4-31220, SRT, "Atrial Septal Defect")
VSD Vmean Alias: VSD Vmean	(20352-1, LN, "Mean Velocity")	(G-C0E3, SRT, "Finding Site") = (D4-31150, SRT, "Ventricular Septal Defect")
VSD meanPG Alias: VSD meanPG	(20256-4, LN, "Mean Gradient")	(G-C0E3, SRT, "Finding Site") = (D4-31150, SRT, "Ventricular Septal Defect")
VSD Env. Ti Alias: VSD Env. Ti	(GEU-106-0132, 99GEMS, "Time duration of the VTI trace")	(G-C0E3, SRT, "Finding Site") = (D4-31150, SRT, "Ventricular Septal Defect")
VSD VTI Alias: VSD VTI	(20354-7, LN, "Velocity Time Integral")	(G-C0E3, SRT, "Finding Site") = (D4-31150, SRT, "Ventricular Septal Defect")

Section Pericardial cavity

GEU Parameter ID (and corresponding alias)	Base Measurement Concept Name	Concept or Acquisition Context Modifier
2D/Pes Alias: Pes	(121206, DCM, "Distance")	(G-C0E3, SRT, "Finding Site") = (D3-90008, SRT, "Pericardial effusion") (G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") or (R-409E2, SRT, "Doppler Color Flow") depending on scan mode (R-4089A, SRT, "Cardiac Cycle Point") = (F-32020, SRT, "Systole")
2D/Ped Alias: Ped	(121206, DCM, "Distance")	(G-C0E3, SRT, "Finding Site") = (D3-90008, SRT, "Pericardial effusion") (G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") or (R-409E2, SRT, "Doppler Color Flow") depending on scan mode (R-4089A, SRT, "Cardiac Cycle Point") = (F-32010, SRT, "Diastole")
MM/Ped Alias: Ped	(121206, DCM, "Distance")	(G-C0E3, SRT, "Finding Site") = (D3-90008, SRT, "Pericardial effusion") (G-0373, SRT, "Image Mode") = (G-0394, SRT, "M mode") (R-4089A, SRT, "Cardiac Cycle Point") = (F-32010, SRT, "Diastole")

Section Aortic Sinotubular Junction

GEU Parameter ID (and corresponding alias)	Base Measurement Concept Name	Concept or Acquisition Context Modifier
2D/Ao st junct Alias: Ao st junct	(M-02550, SRT, "Diameter")	(G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode")
2D/Ao st junct/Ao Alias: Ao st junct/Ao	(59116-4, LN, "Aortic sinotubular junction diameter/Aortic root diameter by US")	(G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode")

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2D/Ao Diam Stub Alias: Ao Diam Stub	(GEU-106-0068, 99GEMS, “Aortic diameter at sinotubular transition”)	(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”)
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Section Sinus Valsalva

GEU Parameter ID (and corresponding alias)	Base Measurement Concept Name	Concept or Acquisition Context Modifier
2D/Ao Diam Svals Alias: Ao Diam Svals	(M-02550, SRT, “Diameter”)	(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”)
2D/SinusesOfValsalva Alias: Sinuses of Val	(M-02550, SRT, “Diameter”)	

Section Patent Ductus Arteriosus

GEU Parameter ID (and corresponding alias)	Base Measurement Concept Name	Concept or Acquisition Context Modifier
2D/PDA Diam Alias: PDA Diam	(M-02550, SRT, “Diameter”)	(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”)
PDA Systolic Alias: PDA Systolic	(11726-7, LN, “Peak Velocity”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32020, SRT, “Systole”)
PDA Systolic PG Alias: PDA Systolic PG	(20247-3, LN, “Peak Gradient”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32020, SRT, “Systole”)
PDA Systolic Vmean Alias: PDA Systolic Vmean	(20352-1, LN, “Mean Velocity”)	(R-4089A, SRT, “Cardiac Cycle Point”) = (F-32020, SRT, “Systole”)

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PDA Systolic meanPG Alias: PDA Systolic meanPG	(20256-4, LN, “Mean Gradient”)	(R-4089A, SRT, “Cardiac Cycle Point”) = (F-32020, SRT, “Systole”)
PDA Systolic Env. Ti Alias: PDA Systolic Env. Ti	(GEU-106-0132, 99GEMS, “Time duration of the VTI trace”)	(R-4089A, SRT, “Cardiac Cycle Point”) = (F-32020, SRT, “Systole”)
PDA Systolic VTI Alias: PDA Systolic VTI	(20354-7, LN, “Velocity Time Integral”)	(R-4089A, SRT, “Cardiac Cycle Point”) = (F-32020, SRT, “Systole”)
PDA Diastolic Alias: PDA Diastolic	(11726-7, LN, “Peak Velocity”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (R-4089A, SRT, "Cardiac Cycle Point") = (F-32010, SRT, "Diastole")
Alias: PDA Diastolic PG	(20247-3, LN, “Peak Gradient”)	(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (R-4089A, SRT, "Cardiac Cycle Point") = (F-32010, SRT, "Diastole")
PDA Diastolic Vmean Alias: PDA Diastolic Vmean	(20352-1, LN, “Mean Velocity”)	(R-4089A, SRT, "Cardiac Cycle Point") = (F-32010, SRT, "Diastole")
PDA Diastolic meanPG Alias: PDA Diastolic meanPG	(20256-4, LN, “Mean Gradient”)	(R-4089A, SRT, "Cardiac Cycle Point") = (F-32010, SRT, "Diastole")
PDA Diastolic Env. Ti Alias: PDA Diastolic Env. Ti	(GEU-106-0132, 99GEMS, “Time duration of the VTI trace”)	(R-4089A, SRT, "Cardiac Cycle Point") = (F-32010, SRT, "Diastole")
PDA Diastolic VTI Alias: PDA Diastolic VTI	(20354-7, LN, “Velocity Time Integral”)	(R-4089A, SRT, "Cardiac Cycle Point") = (F-32010, SRT, "Diastole")

Section Patent Foramen Ovale

GEU Parameter ID (and corresponding alias)	Base Measurement Concept Name	Concept or Acquisition Context Modifier
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2D/PEs Alias: PEs	(M-02550, SRT, "Diameter")	(G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode")
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Section Coronary Artery

GEU Parameter ID (and corresponding alias)	Base Measurement Concept Name	Concept or Acquisition Context Modifier
2D/LCA Alias: LCA	(M-02550, SRT, "Diameter")	(G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") (G-C0E3, SRT, "Finding Site") = (T-43107, SRT, "Left Main Coronary Artery")
2D/RCA Alias: RCA	(M-02550, SRT, "Diameter")	(G-C0E3, SRT, "Finding Site") = (T-43203, SRT, "Right Coronary Artery")
2D/LCX Alias: LCX	(M-02550, SRT, "Diameter")	(G-C0E3, SRT, "Finding Site") = (T-43120, SRT, "Circumflex Coronary Artery")

Section Mitral Valve (prosthetics)

GEU Parameter ID (and corresponding alias)	Base Measurement Concept Name	Concept or Acquisition Context Modifier
MP VTI Alias: MP VTI	(20354-7, LN, "Velocity Time Integral")	(G-C048, SRT, "Direction of Flow") = (R-42047, SRT, "Antegrade Flow")
MP Area Alias: MP Area	(G-038E, SRT, "Cardiovascular Orifice Area")	(125215, DCM, "Continuity Equation by Velocity Time Integral")

Section Aortic Valve (prosthetics)

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<p>AP VTI Alias: AP VTI</p>	<p>(20354-7, LN, "Velocity Time Integral")</p>	<p>(G-C048, SRT, "Direction of Flow") = (R-42047, SRT, "Antegrade Flow")</p>
<p>AP Area Alias: AP Area</p>	<p>(G-038E, SRT, "Cardiovascular Orifice Area")</p>	<p>(125215, DCM, "Continuity Equation by Velocity Time Integral")</p>

Section Aortic Arch

<p>GEU Parameter ID (and corresponding alias)</p>	<p>Base Measurement Concept Name</p>	<p>Concept or Acquisition Context Modifier</p>
<p>2D/ProxAoArch Alias : ProxAoArch</p>	<p>(18011-7, LN, "Aortic Arch Diameter")</p>	<p>(G-C0E3, SRT, "Finding Site") = (SRT, G-A118, "Proximal")</p>

Section LCA Descending Branch

<p>GEU Parameter ID (and corresponding alias)</p>	<p>Base Measurement Concept Name</p>	<p>Concept or Acquisition Context Modifier</p>
<p>2D/LAD Alias: LAD</p>	<p>(M-02550, SRT, "Diameter")</p>	

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15. VASCULAR ULTRASOUND PROCEDURE REPORT

This section describes the contents of the Vascular Ultrasound Procedure Report (TID 5100) SR.

Note: If “Use older SR version” is enabled (see 2.6, 3.6 and 7) the corresponding section present in the DICOM Conformance Statement of the selected version should be used.

15.1 USAGE AND EXTENSION OF TID 5100 VASCULAR ULTRASOUND REPORT

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (125100, DCM, “Vascular Ultrasound Procedure Report”)	1	M		
	>	HAS OBS CONTEXT	INCLUDE	DTID (1001) Observation Context	1	M		
	>	CONTAINS	INCLUDE	DTID (5101) Vascular Patient Characteristics	1	U		
	>	CONTAINS	INCLUDE	DTID (5102) Vascular Procedure Summary Section	1	U		
	>	CONTAINS	INCLUDE	DTID (5103) Vascular Ultrasound Section	1-n	U		

15.2 TID 5101 VASCULAR PATIENT CHARACTERISTICS

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (121118, DCM, “Patient Characteristics”)	1	M		
	>	CONTAINS	NUM	EV (121033, DCM, “Subject Age”)	1	U		Units = DCID (7456) Units of Measure for Age
	>	CONTAINS	CODE	EV (121032, DCM, “Subject Sex”)	1	U		DCID (7455) Sex
	>	CONTAINS	NUM	EV (8867-4, LN, “Heart Rate”)	1	U		
	>	CONTAINS	NUM	EV (F-008EC, SRT, “Systolic Blood Pressure”)	1	U		
	>	CONTAINS	NUM	EV (F-008ED, SRT, “Diastolic Blood Pressure”)	1	U		

15.3 TID 5102 VASCULAR PROCEDURE SUMMARY SECTION

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	DT (121111, DCM, “Summary”)	1	M		

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	>	CONTAINS	TEXT	EV (121106, DCM, "Comment")	1	M		
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15.4 TID 5103 VASCULAR ULTRASOUND SECTION (EXTENDED)

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
			CONTAINER	DT (121070, DCM, "Findings")	1	M		
	>	HAS CONCEPT MOD	CODE	EV (G-C0E3, SRT, "Finding Site")	1	M		See 15.6. GEU Applications and Extensions - \$SectionScope
	>	HAS CONCEPT MOD	CODE	EV (G-C171, SRT, "Laterality")	1	U		See 15.9 GE Ultrasound Sidedness and Vessel Location
	>	HAS CONCEPT MOD	CODE	EV (G-0373, SRT, "Image Mode")	1	M		See 15.8 GE Ultrasound modes.
	>	CONTAINS	INCLUDE	DTID (5104) Vascular Measurement Group	1-n	M		See 15.5 TID 5104 Vascular Ultrasound Measurement Group
	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	U		\$Measurement = \$AnatomyRatio

* This template is extended with the Image Mode row.

15.5 TID 5104 VASCULAR ULTRASOUND MEASUREMENT GROUP

	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	\$Anatomy GEU Parameters	1	M		See 15.6 GEU Applications and Extensions – Anatomy GEU Parameter
	>	HAS CONCEPT MOD	CODE	EV (G-A1F8, SRT, "Topographical Modifier")	1	U		See 15.9 GE Ultrasound Sidedness and Vessel Location
	>	CONTAINS	INCLUDE	DTID (300) Measurement	1-n	U		\$Measurement = See 15.10 Vascular Base Measurement \$Derivation = DCID (3626) Measurement Type

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<p>Section Scope</p> <p>DT (121070, DCM, “Findings”)</p>	<p>Section Laterality</p> <p>EV (G-C171, SRT, “Laterality”)</p>	<p>Anatomy</p>	<p>Anatomy Ratio</p>	<p>GEU Parameters Base Measurement Concept Name</p>																			
<p>(T-40501, SRT, “Blood Vessel of Head”)</p>	<p>(G-A101, SRT, “Left”) for Left, (G-A100, SRT, “Right”) for Right. or (G-A103, SRT, “Unilateral”)</p>	<p>DCID 12105 Intracranial Cerebral Vessels or DCID 12106 Intracranial Cerebral Vessels (Unilateral)</p>		<table border="1"> <thead> <tr> <th data-bbox="964 594 1159 667">Anatomy GEU parameter</th> <th data-bbox="1159 594 1526 667">Code and Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="964 667 1159 730">ICA</td> <td data-bbox="1159 667 1526 730">(T-45300, SRT, “Internal Carotid Artery”)</td> </tr> <tr> <td data-bbox="964 730 1159 793">MCA</td> <td data-bbox="1159 730 1526 793">G (T-45600, SRT, “Middle Cerebral Artery”)</td> </tr> <tr> <td data-bbox="964 793 1159 856">ACA</td> <td data-bbox="1159 793 1526 856">(T-45540, SRT, “Anterior Cerebral Artery”)</td> </tr> <tr> <td data-bbox="964 856 1159 919">PCA</td> <td data-bbox="1159 856 1526 919">(T-45900, SRT, “Posterior Cerebral Artery”)</td> </tr> <tr> <td data-bbox="964 919 1159 982">PComA</td> <td data-bbox="1159 919 1526 982">(T-45320, SRT, “Posterior Communicating Artery”)</td> </tr> <tr> <td data-bbox="964 982 1159 1045">AComA</td> <td data-bbox="1159 982 1526 1045">(T-45530, SRT, “Anterior Communicating Artery”)</td> </tr> <tr> <td data-bbox="964 1045 1159 1108">VERT</td> <td data-bbox="1159 1045 1526 1108">(T-45700, SRT, “Vertebral Artery”)</td> </tr> <tr> <td data-bbox="964 1108 1159 1171">BA</td> <td data-bbox="1159 1108 1526 1171">(T-45800, SRT, “Basilar Artery”)</td> </tr> </tbody> </table> <p>TABLE 15.6.1 TCD Study Folder Code Maps</p>		Anatomy GEU parameter	Code and Description	ICA	(T-45300, SRT, “Internal Carotid Artery”)	MCA	G (T-45600, SRT, “Middle Cerebral Artery”)	ACA	(T-45540, SRT, “Anterior Cerebral Artery”)	PCA	(T-45900, SRT, “Posterior Cerebral Artery”)	PComA	(T-45320, SRT, “Posterior Communicating Artery”)	AComA	(T-45530, SRT, “Anterior Communicating Artery”)	VERT	(T-45700, SRT, “Vertebral Artery”)	BA	(T-45800, SRT, “Basilar Artery”)
Anatomy GEU parameter	Code and Description																						
ICA	(T-45300, SRT, “Internal Carotid Artery”)																						
MCA	G (T-45600, SRT, “Middle Cerebral Artery”)																						
ACA	(T-45540, SRT, “Anterior Cerebral Artery”)																						
PCA	(T-45900, SRT, “Posterior Cerebral Artery”)																						
PComA	(T-45320, SRT, “Posterior Communicating Artery”)																						
AComA	(T-45530, SRT, “Anterior Communicating Artery”)																						
VERT	(T-45700, SRT, “Vertebral Artery”)																						
BA	(T-45800, SRT, “Basilar Artery”)																						

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(T-45005, SRT, "Artery of neck)	(G-A101, SRT, "Left") for Left, or (G-A100, SRT, "Right") for Right.	DCID 12104 Extracranial Arteries	DCID 12123 Carotid Ratios	<table border="1"> <thead> <tr> <th data-bbox="966 254 1161 317">Anatomy GEU parameter</th> <th data-bbox="1161 254 1529 317">Code and Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="966 317 1161 390">VERT</td> <td data-bbox="1161 317 1529 390">(T-45700, SRT, "Vertebral Artery")</td> </tr> <tr> <td data-bbox="966 390 1161 464">CCA</td> <td data-bbox="1161 390 1529 464">(T-45100, SRT, "Common Carotid Artery")</td> </tr> <tr> <td data-bbox="966 464 1161 537">ICA, ICA1</td> <td data-bbox="1161 464 1529 537">(T-45300, SRT, "Internal Carotid Artery")</td> </tr> <tr> <td data-bbox="966 537 1161 611">Innominate</td> <td data-bbox="1161 537 1529 611">(T-46010, SRT, 'Innominate Artery')</td> </tr> <tr> <td data-bbox="966 611 1161 684">BULB</td> <td data-bbox="1161 611 1529 684">(T-45170, SRT, "Carotid Bulb")</td> </tr> <tr> <td data-bbox="966 684 1161 758">ECA</td> <td data-bbox="1161 684 1529 758">(T-45200, SRT, "External Carotid Artery")</td> </tr> <tr> <td data-bbox="966 758 1161 831">SUBC</td> <td data-bbox="1161 758 1529 831">(T-46100, SRT, "Subclavian Artery")</td> </tr> <tr> <td data-bbox="966 831 1161 905">BIF</td> <td data-bbox="1161 831 1529 905">(SRT, T-45160, "Carotid Bifurcation")</td> </tr> <tr> <td data-bbox="966 905 1161 978">Stent</td> <td data-bbox="1161 905 1529 978">(A-25500, SRT, 'Stent')</td> </tr> <tr> <td data-bbox="966 978 1161 1052">Pre-Stent</td> <td data-bbox="1161 978 1529 1052">(GEU-1004-71, 99GEMS, 'Pre-Stent')</td> </tr> <tr> <td data-bbox="966 1052 1161 1125">Post-Stent</td> <td data-bbox="1161 1052 1529 1125">(GEU-1004-72, 99GEMS, 'Post-Stent')</td> </tr> </tbody> </table>	Anatomy GEU parameter	Code and Description	VERT	(T-45700, SRT, "Vertebral Artery")	CCA	(T-45100, SRT, "Common Carotid Artery")	ICA, ICA1	(T-45300, SRT, "Internal Carotid Artery")	Innominate	(T-46010, SRT, 'Innominate Artery')	BULB	(T-45170, SRT, "Carotid Bulb")	ECA	(T-45200, SRT, "External Carotid Artery")	SUBC	(T-46100, SRT, "Subclavian Artery")	BIF	(SRT, T-45160, "Carotid Bifurcation")	Stent	(A-25500, SRT, 'Stent')	Pre-Stent	(GEU-1004-71, 99GEMS, 'Pre-Stent')	Post-Stent	(GEU-1004-72, 99GEMS, 'Post-Stent')
Anatomy GEU parameter	Code and Description																											
VERT	(T-45700, SRT, "Vertebral Artery")																											
CCA	(T-45100, SRT, "Common Carotid Artery")																											
ICA, ICA1	(T-45300, SRT, "Internal Carotid Artery")																											
Innominate	(T-46010, SRT, 'Innominate Artery')																											
BULB	(T-45170, SRT, "Carotid Bulb")																											
ECA	(T-45200, SRT, "External Carotid Artery")																											
SUBC	(T-46100, SRT, "Subclavian Artery")																											
BIF	(SRT, T-45160, "Carotid Bifurcation")																											
Stent	(A-25500, SRT, 'Stent')																											
Pre-Stent	(GEU-1004-71, 99GEMS, 'Pre-Stent')																											
Post-Stent	(GEU-1004-72, 99GEMS, 'Post-Stent')																											
TABLE 15.6.2 Carotid Study Folder Code Maps																												

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(T-47040, SRT, "Artery of Lower Extremity")	(G-A101, SRT, "Left") for Left, or (G-A100, SRT, "Right") for Right. or (G-A103, SRT, "Unilateral")	DCID 12109 Lower Extremity Arteries or DCID 12112 Abdominal Arteries (unilateral)		Anatomy GEU parameter	Code and Description
				ComIliac	(T-46710, SRT, "Common Iliac Artery")
				ExtIliac (EIA)	(T-46910, SRT, "External Iliac Artery")
				ComFemoral (CFA)	(T-47400, SRT, "Common Femoral Artery")
				SupFemoral (SFA)	(T-47403, SRT, "Superficial Femoral Artery")
				Popliteal (Pop A)	(T-47500, SRT, "Popliteal Artery")
				AntTibial (ATA)	(T-47700, SRT, "Anterior Tibial Artery")
				PostTibial (PTA)	T-47600, SRT, "Posterior Tibial Artery")
				Peroneal (Peron A)	(T-47630, SRT, "Peroneal Artery")
				DorsPedis (DPA)	(T-47741, SRT, "Dorsalis Pedis Artery")
				DeepFemoral (DFA)	(T-47440, SRT, "Profunda Femoris Artery")
				Profunda (Pro)	(T-47440, SRT, "Profunda Femoris Artery")
				Aorta	(T-4200, SRT, "Aorta")
				Stent	(A-25500, SRT, 'Stent')
				Pre-Stent	(GEU-1004-71, 99GEMS, 'Pre-Stent')
Post-Stent	(GEU-1004-72, 99GEMS, 'Post-Stent')				
TABLE 15.6.3 LEA Study Folder Code Maps					

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(T-49403, SRT, "Vein of Lower Extremity")	(G-A101, SRT, "Left") for Left, or (G-A100, SRT, "Right") for Right. Or (G-A103, SRT, "Unilateral")	DCID 12110 Lower Extremity of Veins or DCID 12114 Abdominal Veins (unilateral)		<table border="1"> <thead> <tr> <th data-bbox="966 254 1159 317">Anatomy GEU parameter</th> <th data-bbox="1159 254 1523 317">Code and Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="966 317 1159 359">Popliteal</td> <td data-bbox="1159 317 1523 359">(T-49640, SRT, "Popliteal Vein")</td> </tr> <tr> <td data-bbox="966 359 1159 422">LSaphenous</td> <td data-bbox="1159 359 1523 422">(T-49550, SRT, "Lesser Saphenous Vein")</td> </tr> <tr> <td data-bbox="966 422 1159 485">AntTibial</td> <td data-bbox="1159 422 1523 485">(T-49630, SRT, "Anterior Tibial Vein")</td> </tr> <tr> <td data-bbox="966 485 1159 548">PostTibial</td> <td data-bbox="1159 485 1523 548">(T-49620, SRT, "Posterior Tibial Vein")</td> </tr> <tr> <td data-bbox="966 548 1159 590">Peroneal</td> <td data-bbox="1159 548 1523 590">(T-49650, SRT, "Peroneal Vein")</td> </tr> <tr> <td data-bbox="966 590 1159 653">Profunda</td> <td data-bbox="1159 590 1523 653">(T-49660, SRT, "Profunda Femoris Vein")</td> </tr> <tr> <td data-bbox="966 653 1159 716">ExtIliac</td> <td data-bbox="1159 653 1523 716">(T-48930, SRT, "External Iliac Vein")</td> </tr> <tr> <td data-bbox="966 716 1159 779">ComFemoral</td> <td data-bbox="1159 716 1523 779">(G-035B, SRT, "Common Femoral Vein")</td> </tr> <tr> <td data-bbox="966 779 1159 842">ComIliac</td> <td data-bbox="1159 779 1523 842">(T-48920, SRT, "Common Iliac Vein")</td> </tr> <tr> <td data-bbox="966 842 1159 905">Great saphenous</td> <td data-bbox="1159 842 1523 905">(T-49530, SRT, "Great Saphenous Vein")</td> </tr> <tr> <td data-bbox="966 905 1159 947">Femoral</td> <td data-bbox="1159 905 1523 947">(G-035B, SRT, "Femoral Vein")</td> </tr> <tr> <td data-bbox="966 947 1159 1010">IVC</td> <td data-bbox="1159 947 1523 1010">(T-48710, SRT, "Inferior Vena Cava")</td> </tr> <tr> <td data-bbox="966 1010 1159 1073">DeepFemoral</td> <td data-bbox="1159 1010 1523 1073">(T-49660, SRT, "Profunda Femoris Vein")</td> </tr> <tr> <td data-bbox="966 1073 1159 1136">Profunda</td> <td data-bbox="1159 1073 1523 1136">(T-49660, SRT, "Profunda Femoris Vein")</td> </tr> <tr> <td data-bbox="966 1136 1159 1199">SaphFemJunc</td> <td data-bbox="1159 1136 1523 1199">(T-D930A, SRT, 'Saphenofemoral Junction')</td> </tr> <tr> <td data-bbox="966 1199 1159 1262">GreatSaphCalf</td> <td data-bbox="1159 1199 1523 1262">(R-1025A, SRT, 'Great Saphenous Vein of Calf')</td> </tr> <tr> <td data-bbox="966 1262 1159 1325">GreatSaphAccess</td> <td data-bbox="1159 1262 1523 1325">(GEU-1004-73, 99GEMS, 'Great Saphenous Vein of Accessory')</td> </tr> <tr> <td data-bbox="966 1325 1159 1388">Perforator</td> <td data-bbox="1159 1325 1523 1388">(GEU-1005-6, 99GEMS, 'User Vessel Anatomy')</td> </tr> <tr> <td data-bbox="966 1388 1159 1451">SaphPopJunc</td> <td data-bbox="1159 1388 1523 1451">(T-4941A, SRT, 'Saphenopopliteal junction')</td> </tr> </tbody> </table>	Anatomy GEU parameter	Code and Description	Popliteal	(T-49640, SRT, "Popliteal Vein")	LSaphenous	(T-49550, SRT, "Lesser Saphenous Vein")	AntTibial	(T-49630, SRT, "Anterior Tibial Vein")	PostTibial	(T-49620, SRT, "Posterior Tibial Vein")	Peroneal	(T-49650, SRT, "Peroneal Vein")	Profunda	(T-49660, SRT, "Profunda Femoris Vein")	ExtIliac	(T-48930, SRT, "External Iliac Vein")	ComFemoral	(G-035B, SRT, "Common Femoral Vein")	ComIliac	(T-48920, SRT, "Common Iliac Vein")	Great saphenous	(T-49530, SRT, "Great Saphenous Vein")	Femoral	(G-035B, SRT, "Femoral Vein")	IVC	(T-48710, SRT, "Inferior Vena Cava")	DeepFemoral	(T-49660, SRT, "Profunda Femoris Vein")	Profunda	(T-49660, SRT, "Profunda Femoris Vein")	SaphFemJunc	(T-D930A, SRT, 'Saphenofemoral Junction')	GreatSaphCalf	(R-1025A, SRT, 'Great Saphenous Vein of Calf')	GreatSaphAccess	(GEU-1004-73, 99GEMS, 'Great Saphenous Vein of Accessory')	Perforator	(GEU-1005-6, 99GEMS, 'User Vessel Anatomy')	SaphPopJunc	(T-4941A, SRT, 'Saphenopopliteal junction')
Anatomy GEU parameter	Code and Description																																											
Popliteal	(T-49640, SRT, "Popliteal Vein")																																											
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ComFemoral	(G-035B, SRT, "Common Femoral Vein")																																											
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Great saphenous	(T-49530, SRT, "Great Saphenous Vein")																																											
Femoral	(G-035B, SRT, "Femoral Vein")																																											
IVC	(T-48710, SRT, "Inferior Vena Cava")																																											
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Perforator	(GEU-1005-6, 99GEMS, 'User Vessel Anatomy')																																											
SaphPopJunc	(T-4941A, SRT, 'Saphenopopliteal junction')																																											

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<p>(T-49403, SRT, “Vein of Lower Extremity”) Continued</p>	<p>(G-A101, SRT, “Left”) for Left, or (G-A100, SRT, “Right”) for Right. Or (G-A103, SRT, “Unilateral”)</p>	<p>DCID 12110 Lower Extremity of Veins or DCID 12114 Abdominal Veins (unilateral)</p>		<table border="1"> <thead> <tr> <th>Anatomy GEU parameter</th> <th>Code and Description</th> </tr> </thead> <tbody> <tr> <td>FemoralPopJunc</td> <td>(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)</td> </tr> <tr> <td>PopTibialJunc</td> <td>(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)</td> </tr> <tr> <td>VaricoseVein</td> <td>(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)</td> </tr> <tr> <td>AntAccessSaphV</td> <td>(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)</td> </tr> <tr> <td>PostAccessSaphV</td> <td>(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)</td> </tr> <tr> <td>GreatSaphCalf</td> <td>(R-10259, SRT, ‘Great Saphenous Vein of Thigh’)</td> </tr> <tr> <td>Pseudo</td> <td>(M-32390, SRT, ‘Pseudo Aneurysm’)</td> </tr> </tbody> </table> <p>TABLE 15.6.4 LEV Study Folder Code Maps</p>	Anatomy GEU parameter	Code and Description	FemoralPopJunc	(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)	PopTibialJunc	(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)	VaricoseVein	(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)	AntAccessSaphV	(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)	PostAccessSaphV	(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)	GreatSaphCalf	(R-10259, SRT, ‘Great Saphenous Vein of Thigh’)	Pseudo	(M-32390, SRT, ‘Pseudo Aneurysm’)								
Anatomy GEU parameter	Code and Description																											
FemoralPopJunc	(GEU-1005-6, 99GEMS, ‘User Vessel Anatomy’)																											
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Pseudo	(M-32390, SRT, ‘Pseudo Aneurysm’)																											
<p>(T-47020, SRT, “Artery of Upper Extremity”)</p>	<p>(G-A101, SRT, “Left”) for Left, or (G-A100, SRT, “Right”) for Right.</p>	<p>DCID (12107) Upper Extremity Arteries</p>		<table border="1"> <thead> <tr> <th>Anatomy GEU parameter</th> <th>Code and Description</th> </tr> </thead> <tbody> <tr> <td>SUBC</td> <td>(T-46100, SRT, “Subclavian artery”)</td> </tr> <tr> <td>Axill</td> <td>(T-47100, SRT, “Axillary artery”)</td> </tr> <tr> <td>BrachialA</td> <td>(T-47160, SRT, “Brachial artery”)</td> </tr> <tr> <td>RadialA</td> <td>(T-47300, SRT, “Radial artery”)</td> </tr> <tr> <td>UlnarA</td> <td>(T-47200, SRT, “Ulnar artery”)</td> </tr> <tr> <td>Palmar</td> <td>(T-47340, SRT, “Deep Palmar Arch of Radial Artery”)</td> </tr> <tr> <td>Innominate</td> <td>(T-46010, SRT, “Innominate Artery”)</td> </tr> <tr> <td>Pseudo</td> <td>(M-32390, SRT, ‘Pseudo Aneurysm’)</td> </tr> <tr> <td>Stent</td> <td>(A-25500, SRT, ‘Stent’)</td> </tr> <tr> <td>Pre-Stent</td> <td>(GEU-1004-71, 99GEMS, ‘Pre-Stent’)</td> </tr> <tr> <td>Post-Stent</td> <td>(GEU-1004-72, 99GEMS, ‘Post-Stent’)</td> </tr> </tbody> </table> <p>TABLE 15.6.5 UEA Study Folder Code Maps</p>	Anatomy GEU parameter	Code and Description	SUBC	(T-46100, SRT, “Subclavian artery”)	Axill	(T-47100, SRT, “Axillary artery”)	BrachialA	(T-47160, SRT, “Brachial artery”)	RadialA	(T-47300, SRT, “Radial artery”)	UlnarA	(T-47200, SRT, “Ulnar artery”)	Palmar	(T-47340, SRT, “Deep Palmar Arch of Radial Artery”)	Innominate	(T-46010, SRT, “Innominate Artery”)	Pseudo	(M-32390, SRT, ‘Pseudo Aneurysm’)	Stent	(A-25500, SRT, ‘Stent’)	Pre-Stent	(GEU-1004-71, 99GEMS, ‘Pre-Stent’)	Post-Stent	(GEU-1004-72, 99GEMS, ‘Post-Stent’)
Anatomy GEU parameter	Code and Description																											
SUBC	(T-46100, SRT, “Subclavian artery”)																											
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UlnarA	(T-47200, SRT, “Ulnar artery”)																											
Palmar	(T-47340, SRT, “Deep Palmar Arch of Radial Artery”)																											
Innominate	(T-46010, SRT, “Innominate Artery”)																											
Pseudo	(M-32390, SRT, ‘Pseudo Aneurysm’)																											
Stent	(A-25500, SRT, ‘Stent’)																											
Pre-Stent	(GEU-1004-71, 99GEMS, ‘Pre-Stent’)																											
Post-Stent	(GEU-1004-72, 99GEMS, ‘Post-Stent’)																											

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(T-49103, SRT, "Vein of Upper Extremity")	(G-A101, SRT, "Left") for Left, or (G-A100, SRT, "Right") for Right.	DCID 12108 Upper Extremity Veins		<table border="1"> <thead> <tr> <th data-bbox="966 254 1157 317">Anatomy GEU parameter</th> <th data-bbox="1157 254 1518 317">Code and Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="966 317 1157 380">JugularV</td> <td data-bbox="1157 317 1518 380">(T-48170, SRT, "Internal Jugular vein")</td> </tr> <tr> <td data-bbox="966 380 1157 432">InnoV</td> <td data-bbox="1157 380 1518 432">(T-48620, SRT, "Innominate vein")</td> </tr> <tr> <td data-bbox="966 432 1157 474">SUBCV</td> <td data-bbox="1157 432 1518 474">(T-48330, SRT, "Subclavian vein")</td> </tr> <tr> <td data-bbox="966 474 1157 516">AxillV</td> <td data-bbox="1157 474 1518 516">(T-49110, SRT, "Axillary vein")</td> </tr> <tr> <td data-bbox="966 516 1157 558">CephV</td> <td data-bbox="1157 516 1518 558">(T-49240, SRT, "Cephalic vein")</td> </tr> <tr> <td data-bbox="966 558 1157 600">BasilV</td> <td data-bbox="1157 558 1518 600">(T-48052, SRT, "Basilic vein")</td> </tr> <tr> <td data-bbox="966 600 1157 642">BracV</td> <td data-bbox="1157 600 1518 642">(T-49350, SRT, "Brachial vein")</td> </tr> <tr> <td data-bbox="966 642 1157 705">McuV</td> <td data-bbox="1157 642 1518 705">(T-49250, SRT, "Median Cubital vein")</td> </tr> <tr> <td data-bbox="966 705 1157 747">RadialV</td> <td data-bbox="1157 705 1518 747">(T-49340, SRT, "Radial vein")</td> </tr> <tr> <td data-bbox="966 747 1157 789">UlnarV</td> <td data-bbox="1157 747 1518 789">(T-49330, SRT, "Ulnar vein")</td> </tr> <tr> <td data-bbox="966 789 1157 831">Pseudo</td> <td data-bbox="1157 789 1518 831">(M-32390, SRT, 'Pseudo Aneurysm')</td> </tr> <tr> <td data-bbox="966 831 1157 873">AVF</td> <td data-bbox="1157 831 1518 873">(M-39390, SRT, 'AV Fistula')</td> </tr> <tr> <td data-bbox="966 873 1157 915">Axill</td> <td data-bbox="1157 873 1518 915">(T-49110, SRT, "Axillary vein")</td> </tr> </tbody> </table> <p data-bbox="966 915 1518 955">TABLE 15.6.6 UEV Study Folder Code Maps</p>	Anatomy GEU parameter	Code and Description	JugularV	(T-48170, SRT, "Internal Jugular vein")	InnoV	(T-48620, SRT, "Innominate vein")	SUBCV	(T-48330, SRT, "Subclavian vein")	AxillV	(T-49110, SRT, "Axillary vein")	CephV	(T-49240, SRT, "Cephalic vein")	BasilV	(T-48052, SRT, "Basilic vein")	BracV	(T-49350, SRT, "Brachial vein")	McuV	(T-49250, SRT, "Median Cubital vein")	RadialV	(T-49340, SRT, "Radial vein")	UlnarV	(T-49330, SRT, "Ulnar vein")	Pseudo	(M-32390, SRT, 'Pseudo Aneurysm')	AVF	(M-39390, SRT, 'AV Fistula')	Axill	(T-49110, SRT, "Axillary vein")
Anatomy GEU parameter	Code and Description																															
JugularV	(T-48170, SRT, "Internal Jugular vein")																															
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(T-71019, SRT, "Vascular Structure of Kidney")	(G-A101, SRT, "Left") for Left, or (G-A100, SRT, "Right") for Right.	DCID 12115 Renal Vessels Or SRT T-71000 Kidney Or SRT T74000 Bladder	DCID 12124 Renal Ratios	<table border="1"> <thead> <tr> <th data-bbox="966 254 1161 317">Anatomy GEU parameter</th> <th data-bbox="1161 254 1518 317">Code and Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="966 317 1161 359">MRenalA</td> <td data-bbox="1161 317 1518 359">(T-46600, SRT, "Renal Artery")</td> </tr> <tr> <td data-bbox="966 359 1161 401">RenalV</td> <td data-bbox="1161 359 1518 401">(T-48740, SRT, "Renal Vein")</td> </tr> <tr> <td data-bbox="966 401 1161 474">SegmentalA</td> <td data-bbox="1161 401 1518 474">(T-46659, SRT, "Segmental Artery")</td> </tr> <tr> <td data-bbox="966 474 1161 537">InterlobarA</td> <td data-bbox="1161 474 1518 537">(T-4667D, SRT, "Interlobar Artery of Kidney")</td> </tr> <tr> <td data-bbox="966 537 1161 600">ArcuateA</td> <td data-bbox="1161 537 1518 600">(T-4668A, SRT, "Arcuate Artery of the Kidney")</td> </tr> <tr> <td data-bbox="966 600 1161 642">Aorta</td> <td data-bbox="1161 600 1518 642">(T-4200, SRT, "Aorta")</td> </tr> <tr> <td data-bbox="966 642 1161 684">RenalVolume</td> <td data-bbox="1161 642 1518 684">(G-D705, SRT, "Renal Volume")</td> </tr> <tr> <td data-bbox="966 684 1161 726">NewBladderDistL</td> <td data-bbox="1161 684 1518 726">(G-A22A, SRT, "Bladder Length")</td> </tr> <tr> <td data-bbox="966 726 1161 789">NewBladderDistH</td> <td data-bbox="1161 726 1518 789">(121207, DCM, "Bladder Height")</td> </tr> <tr> <td data-bbox="966 789 1161 852">NewBladderDistW</td> <td data-bbox="1161 789 1518 852">(G-A220, SRT, "Bladder Width")</td> </tr> <tr> <td data-bbox="966 852 1161 915">NewBladderVolume</td> <td data-bbox="1161 852 1518 915">(G-D705, SRT, "Bladder Volume")</td> </tr> <tr> <td data-bbox="966 915 1161 978">NewPostBladderDistL</td> <td data-bbox="1161 915 1518 978">(GEU-1004-32, GEU, "Post Void Bladder Length")</td> </tr> <tr> <td data-bbox="966 978 1161 1041">NewPostBladderDistH</td> <td data-bbox="1161 978 1518 1041">(GEU-1004-33, GEU, "Post Void Bladder Height")</td> </tr> <tr> <td data-bbox="966 1041 1161 1104">NewPostBladderDistW</td> <td data-bbox="1161 1041 1518 1104">(GEU-1004-34, GEU, "Post Void Bladder Width")</td> </tr> <tr> <td data-bbox="966 1104 1161 1167">NewPostBladderVolume</td> <td data-bbox="1161 1104 1518 1167">(GEU-1004-35, GEU, "Post Void Bladder Volume")</td> </tr> <tr> <td data-bbox="966 1167 1161 1230">CorticalThickness</td> <td data-bbox="1161 1167 1518 1230">(GEU-1007-13, GEU, "CorticalThickness")</td> </tr> </tbody> </table> <p data-bbox="966 1230 1518 1316">TABLE 15.6.7. Renal Study Folder Code Maps</p>	Anatomy GEU parameter	Code and Description	MRenalA	(T-46600, SRT, "Renal Artery")	RenalV	(T-48740, SRT, "Renal Vein")	SegmentalA	(T-46659, SRT, "Segmental Artery")	InterlobarA	(T-4667D, SRT, "Interlobar Artery of Kidney")	ArcuateA	(T-4668A, SRT, "Arcuate Artery of the Kidney")	Aorta	(T-4200, SRT, "Aorta")	RenalVolume	(G-D705, SRT, "Renal Volume")	NewBladderDistL	(G-A22A, SRT, "Bladder Length")	NewBladderDistH	(121207, DCM, "Bladder Height")	NewBladderDistW	(G-A220, SRT, "Bladder Width")	NewBladderVolume	(G-D705, SRT, "Bladder Volume")	NewPostBladderDistL	(GEU-1004-32, GEU, "Post Void Bladder Length")	NewPostBladderDistH	(GEU-1004-33, GEU, "Post Void Bladder Height")	NewPostBladderDistW	(GEU-1004-34, GEU, "Post Void Bladder Width")	NewPostBladderVolume	(GEU-1004-35, GEU, "Post Void Bladder Volume")	CorticalThickness	(GEU-1007-13, GEU, "CorticalThickness")
Anatomy GEU parameter	Code and Description																																					
MRenalA	(T-46600, SRT, "Renal Artery")																																					
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(T-46002, SRT, "Artery of Abdomen")	(G-A101, SRT, "Left") for Left, (G-A100, SRT, "Right") for Right or (G-A103, SRT, "Unilateral") Or (G-C0E3, SRT, "Finding")	DCID 12111 or 12112 Abdominal Arteries (lateral or unilateral). DCID 12113 or 12114 Abdominal Veins (lateral or unilateral) or DCID 12115 Renal Vessels Or SRT T-C3000 Spleen Or SRT T-71000 Kidney		<table border="1"> <thead> <tr> <th data-bbox="958 254 1159 331">Anatomy GEU parameter</th> <th data-bbox="1164 254 1534 331">Code and Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="958 338 1159 380">Aorta</td> <td data-bbox="1164 338 1534 380">(T-42000, SRT, "Aorta")</td> </tr> <tr> <td data-bbox="958 386 1159 428">Celiac</td> <td data-bbox="1164 386 1534 428">(T-46400, SRT, "Celiac Axis")</td> </tr> <tr> <td data-bbox="958 434 1159 512">CHA</td> <td data-bbox="1164 434 1534 512">(T-46421, SRT, "Common Hepatic Artery")</td> </tr> <tr> <td data-bbox="958 518 1159 560">Splenic A</td> <td data-bbox="1164 518 1534 560">(T-46460, SRT, "Splenic Artery")</td> </tr> <tr> <td data-bbox="958 567 1159 644">SMA</td> <td data-bbox="1164 567 1534 644">(T-46510, SRT, "Superior Mesenteric Artery")</td> </tr> <tr> <td data-bbox="958 651 1159 728">IMA</td> <td data-bbox="1164 651 1534 728">(T-46520, SRT, "Inferior Mesenteric Artery")</td> </tr> <tr> <td data-bbox="958 735 1159 777">MRenalA</td> <td data-bbox="1164 735 1534 777">(T-46600, SRT, "Renal Artery")</td> </tr> <tr> <td data-bbox="958 783 1159 825">RenalV</td> <td data-bbox="1164 783 1534 825">(T-48740, SRT, "Renal Vein")</td> </tr> <tr> <td data-bbox="958 831 1159 873">SegmentalA</td> <td data-bbox="1164 831 1534 873">(T-46659, SRT, "Segmental Artery")</td> </tr> <tr> <td data-bbox="958 879 1159 957">InterlobarA</td> <td data-bbox="1164 879 1534 957">(T-4667D, SRT, "Interlobar Artery of Kidney")</td> </tr> <tr> <td data-bbox="958 963 1159 1041">ArcuateA</td> <td data-bbox="1164 963 1534 1041">(T-4668A, SRT, "Arcuate Artery of the Kidney")</td> </tr> <tr> <td data-bbox="958 1047 1159 1125">CIA</td> <td data-bbox="1164 1047 1534 1125">(T-46710, SRT, "Common Iliac Artery")</td> </tr> <tr> <td data-bbox="958 1131 1159 1209">PrHepatic</td> <td data-bbox="1164 1131 1534 1209">(T-46422, SRT, "Proper Hepatic Artery")</td> </tr> <tr> <td data-bbox="958 1215 1159 1293">GDA</td> <td data-bbox="1164 1215 1534 1293">(T-46440, SRT, Gastroduodenal Artery)</td> </tr> <tr> <td data-bbox="958 1299 1159 1377">IVC</td> <td data-bbox="1164 1299 1534 1377">(T-48710, SRT, "Inferior Vena Cava")</td> </tr> <tr> <td data-bbox="958 1383 1159 1425">Splenic V</td> <td data-bbox="1164 1383 1534 1425">(T-48890, SRT, Splenic Vein")</td> </tr> <tr> <td data-bbox="958 1432 1159 1474">Hepatic V</td> <td data-bbox="1164 1432 1534 1474">(T-48720, SRT, Hepatic Vein")</td> </tr> <tr> <td data-bbox="958 1480 1159 1558">MHV</td> <td data-bbox="1164 1480 1534 1558">(T-48726, SRT, Middle Hepatic Vein")</td> </tr> <tr> <td data-bbox="958 1564 1159 1642">MPV</td> <td data-bbox="1164 1564 1534 1642">(GEU-1004-65, 99GEMS, "Main Branch of Portal Vein")</td> </tr> <tr> <td data-bbox="958 1648 1159 1690">Portal V</td> <td data-bbox="1164 1648 1534 1690">(T-48810, SRT, "Portal Vein")</td> </tr> <tr> <td data-bbox="958 1696 1159 1774">SMV</td> <td data-bbox="1164 1696 1534 1774">(T-48840, SRT, "Superior Mesenteric Vein")</td> </tr> <tr> <td data-bbox="958 1780 1159 1858">TIPS</td> <td data-bbox="1164 1780 1534 1858">(G-036C, SRT, "Transjugular Intrahepatic Portosystemic Shunt")</td> </tr> <tr> <td data-bbox="958 1864 1159 1906">CIV</td> <td data-bbox="1164 1864 1534 1906">(T-48920, SRT, "Common Iliac Vein")</td> </tr> </tbody> </table>	Anatomy GEU parameter	Code and Description	Aorta	(T-42000, SRT, "Aorta")	Celiac	(T-46400, SRT, "Celiac Axis")	CHA	(T-46421, SRT, "Common Hepatic Artery")	Splenic A	(T-46460, SRT, "Splenic Artery")	SMA	(T-46510, SRT, "Superior Mesenteric Artery")	IMA	(T-46520, SRT, "Inferior Mesenteric Artery")	MRenalA	(T-46600, SRT, "Renal Artery")	RenalV	(T-48740, SRT, "Renal Vein")	SegmentalA	(T-46659, SRT, "Segmental Artery")	InterlobarA	(T-4667D, SRT, "Interlobar Artery of Kidney")	ArcuateA	(T-4668A, SRT, "Arcuate Artery of the Kidney")	CIA	(T-46710, SRT, "Common Iliac Artery")	PrHepatic	(T-46422, SRT, "Proper Hepatic Artery")	GDA	(T-46440, SRT, Gastroduodenal Artery)	IVC	(T-48710, SRT, "Inferior Vena Cava")	Splenic V	(T-48890, SRT, Splenic Vein")	Hepatic V	(T-48720, SRT, Hepatic Vein")	MHV	(T-48726, SRT, Middle Hepatic Vein")	MPV	(GEU-1004-65, 99GEMS, "Main Branch of Portal Vein")	Portal V	(T-48810, SRT, "Portal Vein")	SMV	(T-48840, SRT, "Superior Mesenteric Vein")	TIPS	(G-036C, SRT, "Transjugular Intrahepatic Portosystemic Shunt")	CIV	(T-48920, SRT, "Common Iliac Vein")
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TABLE 15.6.8 Abdomen Study Folder Code Maps

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(T-46002, SRT, "Artery of Abdomen") Continued				<table border="1"> <thead> <tr> <th data-bbox="961 470 1159 548">Anatomy GEU parameter</th> <th data-bbox="1159 470 1518 548">Code and Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="961 548 1159 596">DiamRatioD1</td> <td data-bbox="1159 548 1518 596">(121206, DCM, "Distance")</td> </tr> <tr> <td data-bbox="961 596 1159 644">DiamRatioD2</td> <td data-bbox="1159 596 1518 644">(121206, DCM, "Distance")</td> </tr> <tr> <td data-bbox="961 644 1159 716">ABDiamRatio</td> <td data-bbox="1159 644 1518 716">(GEU-1004-55, 99GEMS, "A/B Diameter Ratio")</td> </tr> <tr> <td data-bbox="961 716 1159 764">AreaRatioA1</td> <td data-bbox="1159 716 1518 764">(121056, DCM, "Area Outline")</td> </tr> <tr> <td data-bbox="961 764 1159 812">AreaRatioA2</td> <td data-bbox="1159 764 1518 812">(121056, DCM, "Area Outline")</td> </tr> <tr> <td data-bbox="961 812 1159 884">ABAreaRatio</td> <td data-bbox="1159 812 1518 884">(GEU-1004-66, 99GEMS, "A/B Area Ratio")</td> </tr> <tr> <td data-bbox="961 884 1159 932">SplenicDistL</td> <td data-bbox="1159 884 1518 932">(G-A22A, SRT, "Splenic Length")</td> </tr> <tr> <td data-bbox="961 932 1159 980">SplenicDistH</td> <td data-bbox="1159 932 1518 980">(121207, DCM, "Splenic Height")</td> </tr> <tr> <td data-bbox="961 980 1159 1029">SplenicDistW</td> <td data-bbox="1159 980 1518 1029">(G-A220, SRT, "Splenic Width")</td> </tr> <tr> <td data-bbox="961 1029 1159 1077">SplenicVolume</td> <td data-bbox="1159 1029 1518 1077">(G-D705, SRT, "Splenic Volume")</td> </tr> <tr> <td data-bbox="961 1077 1159 1125">RenalVolumeD1</td> <td data-bbox="1159 1077 1518 1125">(GEU-1004-52, 99GEMS, "Volume Diameter 1")</td> </tr> <tr> <td data-bbox="961 1125 1159 1173">RenalVolumeD2</td> <td data-bbox="1159 1125 1518 1173">(GEU-1004-53, 99GEMS, "Volume Diameter 2")</td> </tr> <tr> <td data-bbox="961 1173 1159 1222">RenalVolumeD3</td> <td data-bbox="1159 1173 1518 1222">(GEU-1004-54, 99GEMS, "Volume Diameter 3")</td> </tr> <tr> <td data-bbox="961 1222 1159 1270">RenalManVolume</td> <td data-bbox="1159 1222 1518 1270">(G-D705, SRT, "Volume")</td> </tr> </tbody> </table> <p data-bbox="987 1394 1500 1446">TABLE 15.6.8 Abdomen Study Folder Code Maps (continued)</p>	Anatomy GEU parameter	Code and Description	DiamRatioD1	(121206, DCM, "Distance")	DiamRatioD2	(121206, DCM, "Distance")	ABDiamRatio	(GEU-1004-55, 99GEMS, "A/B Diameter Ratio")	AreaRatioA1	(121056, DCM, "Area Outline")	AreaRatioA2	(121056, DCM, "Area Outline")	ABAreaRatio	(GEU-1004-66, 99GEMS, "A/B Area Ratio")	SplenicDistL	(G-A22A, SRT, "Splenic Length")	SplenicDistH	(121207, DCM, "Splenic Height")	SplenicDistW	(G-A220, SRT, "Splenic Width")	SplenicVolume	(G-D705, SRT, "Splenic Volume")	RenalVolumeD1	(GEU-1004-52, 99GEMS, "Volume Diameter 1")	RenalVolumeD2	(GEU-1004-53, 99GEMS, "Volume Diameter 2")	RenalVolumeD3	(GEU-1004-54, 99GEMS, "Volume Diameter 3")	RenalManVolume	(G-D705, SRT, "Volume")
	Anatomy GEU parameter	Code and Description																																
	DiamRatioD1	(121206, DCM, "Distance")																																
	DiamRatioD2	(121206, DCM, "Distance")																																
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	AreaRatioA1	(121056, DCM, "Area Outline")																																
	AreaRatioA2	(121056, DCM, "Area Outline")																																
	ABAreaRatio	(GEU-1004-66, 99GEMS, "A/B Area Ratio")																																
	SplenicDistL	(G-A22A, SRT, "Splenic Length")																																
	SplenicDistH	(121207, DCM, "Splenic Height")																																
	SplenicDistW	(G-A220, SRT, "Splenic Width")																																
	SplenicVolume	(G-D705, SRT, "Splenic Volume")																																
	RenalVolumeD1	(GEU-1004-52, 99GEMS, "Volume Diameter 1")																																
	RenalVolumeD2	(GEU-1004-53, 99GEMS, "Volume Diameter 2")																																
	RenalVolumeD3	(GEU-1004-54, 99GEMS, "Volume Diameter 3")																																
RenalManVolume	(G-D705, SRT, "Volume")																																	

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	NL	Relation with Parent	Value Type	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			NUM	\$Measurement	1	M		Units = \$Units
3	>	HAS CONCEPT MOD	CODE	EV(GEU-1005-5, 99GEMS, Measurement Label)	1	UC	Only for AP or Trans	- AP (122675, Anterior-Posterior, DCM,) - Trans (G-A117. Transverse, SRT)
4	>	HAS CONCEPT MOD	CODE	EV(G-A1F8, SRT, "Topographical modifier")	1	U		See 15.9 GE Ultrasound Sidedness and Vessel Location
5	>	HAS CONCEPT MOD	CODE	EV(121401, DCM, "Derivation")	1	U		See 15.11 Derivation and Selection
6	>	HAS PROPERTIES	CODE	EV(121404, DCM, "Selection Status")	1	U		See 15.11 Derivation and Selection

15.8 GE ULTRASOUND MODES

GE Ultrasound Modes	Code Value
2D	(G-03A2, SRT, "2D mode")
CF	(R-409E2, SRT, "Doppler Color Flow")
PW	(R-409E4, SRT, "Doppler Pulsed")
MM	(G-0394, SRT, "M mode")
CW	(R-409E3, SRT, "Doppler Continuous Wave")

15.9 GE ULTRASOUND SIDEDNESS AND VESSEL LOCATION

Side	Code Value
Rt	(G-A100, SRT, "Right")
Lt	(G-A101, SRT, "Left")

Vessel Location	Code Value
Prox	(G-A118, SRT, "Proximal")
Mid	(G-A188, SRT, "Mid-longitudinal")
Dist	(G-A119, SRT, "Distal")

Note (*) when there is no Sidedness or Locations, the SR nodes are not populated.

15.10 SR MAPPING TABLE FOR VASCULAR BASE MEASUREMENT CONCEPT

GEU Measurement Parameter	Standard Measurement Concept Name
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PS	(11726-7, LN, "Peak Systolic Velocity")
ED	(11653-3, LN, "End Diastolic Velocity")
MD	(11665-7, LN, "Minimum Diastolic Velocity")
Tamax	(11692-1, LN, "Time averaged peak velocity")
PI	(12008-9, LN, "Pulsatility Index")
RI	(12023-8, LN, "Resistivity Index")
PV	(11726-7, LN, Peak Velocity)
SD Ratio	(12144-2, LN, "Systolic to Diastolic Velocity Ratio")
DS Ratio	(122218, DCM, Diastolic/Systolic velocity ratio)
Accel	(20167-3, LN, "Acceleration Index")
AT	(20168-1, LN, "Acceleration Time")
TAMEAN	(20352-1, LN, "Time averaged mean velocity")
VOLFLOW	(33878-0, LN, "Volume flow")
ICACCA Ratio (PS)	(33868-1, LN, "ICA/CCA velocity ratio")
HR (Heart Rate)	(8867-4, LN, Heart Rate)
AC	(GEU-1004-9, 99GEMS, "Angular Correction")
RAR	(33869-9, LN, "Renal Artery/Aorta velocity ratio")
PS/Hz	(GEU-1004-13, 99GEMS, 'Peak Systolic Frequency')
ED/Hz	(GEU-1004-14, 99GEMS, 'End Diastolic Frequency')
MD/Hz	(GEU-1004-16, 99GEMS, 'Minimum Diastolic Frequency')
PV/Hz	(GEU-1004-15, 99GEMS, 'Peak Velocity Frequency')
RefluxTime	(GEU-1004-22, 99GEMS, 'Reflux Time')
GreatSaphAccess	(GEU-1004-73, 99GEMS, 'Great Saphenous Vein of Accessory')

TABLE 15.10.1 PWD-MODE MEASUREMENTS

GEU Measurement Parameter	Standard Measurement Concept Name
DiamStenD1/D2	(G-0364 , SRT, " Vessel Lumen Diameter")
AreaStenA1/A2	(G-0366, SRT, "Vessel Lumen Cross-Sectional Area")
StenosisD	(R-101BB, SRT, " Lumen Diameter Stenosis")
StenosisA	(R-101BA, SRT, "Lumen Area Stenosis")
IMT Ant Avg	(GEU-1005-20, 99GEMS, "IMT Anterior Average")
IMT Ant Max	(GEU-1005-21, 99GEMS, "IMT Anterior Max")
IMT Ant Min	(GEU-1005-22, 99GEMS, "IMT Anterior Min")
IMT Ant SD	(GEU-1005-23, 99GEMS, "IMT Anterior SD")
IMT Ant nMeas	(GEU-1005-24, 99GEMS, "IMT Anterior nMeas")
IMT Post Avg	(GEU-1005-26, 99GEMS, "IMT Posterior Average")
IMT Post Max	(GEU-1005-27, 99GEMS, "IMT Posterior Max")
IMT Post Min	(GEU-1005-28, 99GEMS, "IMT Posterior Min")
IMT Post SD	(GEU-1005-29, 99GEMS, "IMT Posterior SD")
IMT Post nMeas	(GEU-1005-30, 99GEMS, "IMT Posterior nMeas")
Aorta AP	(Diameter, SRT, M-02550), with Measurement Label ("Anterior-Posterior", DCM 122675)

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Aorta Trans	(Diameter, SRT, M-02550), with Measurement Label (“Transverse”, SRT, G-A117)
ILA AP	(Diameter, SRT, M-02550) with Measurement Label (“Anterior-Posterior”, DCM, 122675)
ILA Trans	(Diameter, SRT, M-02440), with Measurement Label (“Transverse”, SRT, G-A117)
DiamRatioD1, DiamRatioD2	(121206, DCM, “Distance”)
ABDiamRatio	(GEU-1004-55, 99GEMS, “A/B Diameter Ratio”)
AreaRatioA1, AreaRatioA2	(121056, DCM, “Area Outline”)
ABAreaRatio	(GEU-1004-66, 99GEMS, “A/B Area Ratio”)
ComIliac AP	(M-02550, SRT, “Common Iliac Artery Diameter”) With Measurement Label (122675, DCM, “Anterior-Posterior”) Inside (T-46710, SRT, “Common Iliac Artery”)
ComIliacTrans	(M-02550, SRT, “Common Iliac Artery Diameter”) With Measurement Label (G-A117, SRT, “Transverse”) Inside (T-46710, SRT, “Common Iliac Artery”)
ComIliac DiamStenD1/D2	(G-0364, SRT, “Vessel Lumen Diameter”) Inside (T-46710, SRT, “Common Iliac Artery”)
ComIliac StenosisD	(R-101BB, SRT, “Lumen Diameter Stenosis”) Inside (T-46710, SRT, “Common Iliac Artery”)
ComIliac AreaStenA1/A2	(G-0366, SRT, “Vessel Lumen Cross-Sectional Area”) Inside (T-46710, SRT, “Common Iliac Artery”)
ComIliac StenosisA	(R-101BA, SRT, “Lumen Area Stenosis”) Inside (T-46710, SRT, “Common Iliac Artery”)
ExtIliac AP	(M-02550, SRT, “External Iliac Artery Diameter”) with Measurement Label (122675, DCM, “Anterior-Posterior”) Inside (T-46910, SRT, “External Iliac Artery”)
ExtIliac Trans	(M-02550, SRT, “External Iliac Artery Diameter”) with Measurement Label (G-A117, SRT, “Transverse”) Inside (T-46910, SRT, “External Iliac Artery”)
ExtIliac DiamStenD1/D2	(G-0364, SRT, “Vessel Lumen Diameter”) Inside (T-46910, SRT, “External Iliac Artery”)
ExtIliac StenosisD	(R-101BB, SRT, “Lumen Diameter Stenosis”) Inside (T-46910, SRT, “External Iliac Artery”)
ExtIliac AreaStenA1/A2	(G-0366, SRT, “Vessel Lumen Cross-Sectional Area”) Inside (T-46910, SRT, “External Iliac Artery”)
ExtIliac StenosisA	(R-101BA, SRT, “Lumen Area Stenosis”) Inside (T-46910, SRT, “External Iliac Artery”)
ComFemoral AP	(M-02550, SRT, “Common Femoral Artery Diameter”) with Measurement Label (122675, SRT, “Anterior-Posterior”) Inside (T-47400, SRT, “Common Femoral Artery”)
ComFemoral Trans	(M-02550, SRT, “Common Femoral Artery Diameter”) with Measurement Label (G-A117, SRT, “Transverse”) Inside (T-47400, SRT, “Common Femoral Artery”)
ComFemoral Diam StenD1/D2	(G-0364, SRT, “Vessel Lumen Diameter”) Inside (T-47400, SRT, “Common Femoral Artery”)
ComFemoral StenosisD	(R-101BB, SRT, “Lumen Diameter Stenosis”) Inside (T-47400, SRT, “Common Femoral Artery”)
ComFemoral AreaStenA1/A2	(G-0366, SRT, “Vessel Lumen Cross-Sectional Area”) Inside (T-47400, SRT, “Common Femoral Artery”)

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ComFemoral StenosisA	(R-101BA, SRT, "Lumen Area Stenosis") Inside (T-47400, SRT, "Common Femoral Artery")
AP	(M-02550, SRT, 'Diameter') with Measurement Labels (122675, DCM, 'Anterior-Posterior')
2D AP	(M-02550, SRT, "Aorta") with Measurement Label (122675, SRT, "Anterior-Posterior") inside (T-42000, SRT, Aorta)
Trans	(M-02550, SRT, 'Diameter') with Measurement Labels (G-A117, SRT, 'Transverse')
2D Trans	(M-02550, SRT, "Aorta") with Measurement Label (G-A117, SRT, "Transverse") inside (T-42000, SRT, Aorta)
VFDiam	(GEU-1004-49, 99GEMS, 'Volume Flow Diameter')

TABLE 15.10.2 VASCULAR B-MODE MEASUREMENTS

GEU Measurement Parameter	Standard Measurement Concept Name
LiverDistL	(G-A22A, SRT, "Liver Length") Inside (T-62002, SRT, Liver) container
LiverDistH	(121207, DCM, "Liver Height") Inside (T-62002, SRT, Liver) container
LiverDistW	(G-A220, SRT, "Liver Width") Inside (T-62002, SRT, Liver) container
LiverVolume	(G-D705, SRT, "Liver Volume") Inside (T-62002, SRT, Liver) container
MassDistL	(G-A22A, SRT, "Mass Length") Inside (M-03000, SRT, Mass) container
MassDistH	(121207, DCM, "Mass Height") Inside (M-03000, SRT, Mass) container
MassDistW	(G-A220, SRT, "Mass Width") Inside (M-03000, SRT, Mass) container
MassVolume	(G-D705, SRT, "Mass Volume") Inside (M-03000, SRT, Mass) container
CystDistL	(G-A22A, SRT, "Cyst Length") Inside (M-3340A, SRT, Cyst) container
CystDistH	(121207, DCM, "Cyst Height") Inside (M-3340A, SRT, Cyst) container
CystDiswW	(G-A220, SRT, "Cyst Width") Inside (M-3340A, SRT, Cyst) container
CystDistVolume	(G-A220, SRT, "Cyst Volume") Inside (M-3340A, SRT, Cyst) container
PancHead	(GEU-1004-59, GEU, "Pancreas Head Diameter") Inside (T-D4034, SRT, Pancreas) container
PancDuct	(GEU-1004-61, GEU, "Pancreas Duct Diameter") Inside (T-D4034, SRT, Pancreas) container
PancBody	(GEU-1004-60, GEU, "Pancreas Body Diameter") Inside (T-D4034, SRT, Pancreas) container
CBDporta	(GEU-1004-67, GEU, "Common bile duct porta") Inside (T-60610, SRT, Bile Duct) container
CBDpanc	(GEU-1004-68, GEU, "Common bile duct pancreas")

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	Inside (T-60610, SRT, Bile Duct) container
GBW	(GEU-1004-38, GEU, "Thickness of Gall Bladder Wall") Inside (T-63000, SRT, Gall Bladder) container
GBL	(G-A22A, SRT, "Gall Bladder Length") Inside (T-63000, SRT, Gall Bladder) container
AoProxAP	(M-02550, SRT, "Aorta Diameter") with (122675, DCM, "Anterior-Posterior") inside (T-42000, SRT, Aorta) with (Proximal, SRT,G-A118) as Topographical Modifier
AoProxTrans	(M-02550, SRT, "Aorta Diameter") with (G-A117, SRT, "Transverse") inside (T-42000, SRT, Aorta) with (Proximal, SRT,G-A118) as Topographical Modifier
AoMidAP	(M-02550, SRT, "Aorta Diameter") with (122675, DCM, "Anterior-Posterior") inside (T-42000, SRT, Aorta) with (Mid-longitudinal, SRT,G-A188) as Topographical Modifier
AoMidTrans	(M-02550, SRT, "Aorta Diameter") with (122675, DCM, "Anterior-Posterior") inside (T-42000, SRT, Aorta) with (Mid-longitudinal, SRT,G-A188) as Topographical Modifier
AoDistAP	(M-02550, SRT, "Aorta Diameter") with (122675, DCM, "Anterior-Posterior") inside (T-42000, SRT, Aorta) with (Distal, SRT,G-A119) as Topographical Modifier
AoDistTrans	(M-02550, SRT, "Aorta Diameter") with (G-A117, SRT, "Transverse") inside (T-42000, SRT, Aorta) with (Distal, SRT,G-A119) as Topographical Modifier
IliacAP	(M-02550, SRT, "Iliac artery Diameter") with Measurement Label (122675, DCM, "Anterior-Posterior") inside (T-46710, SRT, Common Iliac Artery)
IliacTrans	(M-02550, SRT, "Iliac artery Diameter") with Measurement Label (G-A117, SRT, "Transverse") inside (T-46710, SRT, Common Iliac Artery)
BladderDistL	(G-A22A, SRT, "Bladder Length") Inside (T-74000, SRT, Bladder) container
BladderDistH	(121207, DCM, "Bladder Height") Inside (T-74000, SRT, Bladder) container
BladderDistW	(G-A220, SRT, "Bladder Width") Inside (T-74000, SRT, Bladder) container
BladderVolume	(G-D705, SRT, "Bladder Volume") Inside (T-74000, SRT, Bladder) container
CeliacA AP	(M-02550, SRT, "Celiac Axis Diameter") with Measurement Label (122675, DCM, "Anterior-Posterior") inside (T-46400, SRT, Celiac Axis)
CeliacA Trans	(M-02550, SRT, "Celiac Axis Diameter") with Measurement Label (G-A117, SRT, "Transverse") inside (T-46400, SRT, Celiac Axis)
CeliacA DiamStenD1/D2	(G-0364, SRT, "Vessel Lumen Diameter") inside (T-46400, SRT, Celiac Axis)
CeliacA Stenosis D	(R-101BB, SRT, "Lumen Diameter Stenosis") inside (T-46400, SRT, Celiac Axis)
CeliacA AreaStenA1/A2	(G-0366, SRT, "Vessel Lumen Cross-Section Area") inside (T-46400, SRT, Celiac Axis)
CeliacA StenosisA	(R-101BA, SRT, "Lumen Area Stenosis")

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	inside (T-46400, SRT, Celiac Axis)
CeliacA SMA AP	(R-101BA, SRT, "Lumen Area Stenosis") inside (T-46400, SRT, Celiac Axis)
SMA AP	(M-02550, SRT, "Superior Mesenteric Artery Diameter") with Measurement Label (122675, DCM, "Anterior-Posterior") inside (T-46510, SRT, Superior Mesenteric Artery)
SMA Trans	(M-02550, SRT, "Superior Mesenteric Artery Diameter") with Measurement Label (G-A117, SRT, "Transverse") inside (T-46510, SRT, Superior Mesenteric Artery)
SMA DiamStenD1/D2	(G-0364, SRT, "Vessel Lumen Diameter") inside (T-46510, SRT, Superior Mesenteric Artery)
SMA StenosisD	(R-101BB, SRT, "Lumen Diameter Stenosis") inside (T-46510, SRT, Superior Mesenteric Artery)
SMA AreaStenA1/A2	(G-0366, SRT, "Vessel Lumen Cross-Section Area") inside (T-46510, SRT, Superior Mesenteric Artery)
SMA StenosisA	(R-101BA, SRT, "Lumen Area Stenosis") inside (T-46510, SRT, Superior Mesenteric Artery)
IMA AP	(M-02550, SRT, "Inferior Mesenteric Artery Diameter") with Measurement Label (122675, DCM, "Anterior-Posterior") inside (T-46520, SRT, Inferior Mesenteric Artery)
IMA Trans	(M-02550, SRT, "Inferior Mesenteric Artery Diameter") with Measurement Label (G-A117, SRT, "Transverse") inside (T-46520, SRT, Inferior Mesenteric Artery)
IMA DiamStenD1/D2	(G-0364, SRT, "Vessel Lumen Diameter") inside (T-46520, SRT, Inferior Mesenteric Artery)
IMA StenosisD	(R-101BB, SRT, "Lumen Diameter Stenosis") inside (T-46520, SRT, Inferior Mesenteric Artery)
IMA AreaStenA1/A2	(G-0366, SRT, "Vessel Lumen Cross-Section Area") inside (T-46520, SRT, Inferior Mesenteric Artery)
IMA StenosisA	(R-101BA, SRT, "Lumen Area Stenosis") inside (T-46520, SRT, Inferior Mesenteric Artery)
Stent AP	(M-02550, SRT, "Vessel Diameter") with Measurement Label (122675, DCM, "Anterior-Posterior") inside (A-25500, SRT, Stent)
Stent Trans	(M-02550, SRT, "Vessel Diameter") with Measurement Label (G-A117, SRT, "Transverse") inside (A-25500, SRT, Stent)
Stent DiamStenD1/D2	(G-0364, SRT, "Vessel Lumen Diameter") inside (A-25500, SRT, Stent)
Stent StenosisD	(R-101BB, SRT, "Lumen Diameter Stenosis") inside (A-25500, SRT, Stent)
Stent AreaStenA1/A2	(G-0366, SRT, "Vessel Lumen Cross-Section Area") inside (A-25500, SRT, Stent)
Stent StenosisA	(R-101BA, SRT, "Lumen Area Stenosis") inside (A-25500, SRT, Stent)
PreStent AP	(M-02550, SRT, "Vessel Diameter") with Measurement Label (122675, DCM, "Anterior-Posterior") inside (GEU-1004-71, GEU, Pre-Stent)
PreStent Trans	(M-02550, SRT, "Stent") with Measurement Label (G-A117, SRT, "Transverse") inside (GEU-1004-71, GEU, Pre-Stent)

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PreStent DiamStenD1/D2	(G-0364, SRT, "Vessel Lumen Diameter") inside (GEU-1004-71, GEU, Pre-Stent)
PreStent StenosisD	(R-101BB, SRT, "Lumen Diameter Stenosis") inside (GEU-1004-71, GEU, Pre-Stent)
PreStent AreaStenA1/A2	(G-0366, SRT, "Vessel Lumen Cross-Section Area") inside (GEU-1004-71, GEU, Pre-Stent)
PreStent StenosisA	(R-101BA, SRT, "Lumen Area Stenosis") inside (GEU-1004-71, GEU, Pre-Stent)
PostStent AP	(M-02550, SRT, "Vessel Diameter") with Measurement Label (122675, DCM, "Anterior-Posterior") inside (GEU-1004-72, GEU, Post-Stent)
PostStent Trans	(M-02550, SRT, "Stent") with Measurement Label (G-A117, SRT, "Transverse") inside (GEU-1004-72, GEU, Post-Stent)
PostStent DiamStenD1/D2	(G-0364, SRT, "Vessel Lumen Diameter") inside (GEU-1004-72, GEU, Post-Stent)
PostStent StenosisD	(R-101BB, SRT, "Lumen Diameter Stenosis") inside (GEU-1004-72, GEU, Post-Stent)
PostStent AreaStenA1/A2	(G-0366, SRT, "Vessel Lumen Cross-Section Area") inside (GEU-1004-72, GEU, Post-Stent)
PostStent StenosisA	(R-101BA, SRT, "Lumen Area Stenosis") inside (GEU-1004-72, GEU, Post-Stent)
AortaAP	(M-02550, SRT, "Aorta Diameter") with Measurement Label (122675, DCM, "Anterior-Posterior") inside (T-42000, SRT, Aorta)
AortaTrans	(M-02550, SRT, "Aorta Diameter") with Measurement Label (G-A117, SRT, "Transverse") inside (T-42000, SRT, Aorta)
Aorta Sagittal	(M-02550, SRT, "Aorta Diameter") with Measurement Label (G-A117, SRT, "Sagittal") inside (T-42000, SRT, Aorta)
IIA DiamStenD1/D2	(G-0364, SRT, "Vessel Lumen Diameter") inside (T-46740, SRT, Internal Iliac Artery)
IIA StenosisD	(R-101BB, SRT, "Lumen Diameter Stenosis") inside (T-46740, SRT, Internal Iliac Artery)
IIA AreaStenA1/A2	(G-0366, SRT, "Vessel Lumen Cross-Section Area") inside (T-46740, SRT, Internal Iliac Artery)
IIA StenosisA	(R-101BA, SRT, "Lumen Area Stenosis") inside (T-46740, SRT, Internal Iliac Artery)
SpleenDistL	(G-A22A, SRT, Spleen Length) Inside (T-C3000, SRT, Spleen)
SpleenDistH	(121207, DCM, Spleen Height) Inside (T-C3000, SRT, Spleen)
SpleenDistW	(G-A220, SRT, Spleen Width) Inside (T-C3000, SRT, Spleen)
SpleenVolume	(G-D705, SRT, Spleen Volume) Inside (T-C3000, SRT, Spleen)
Aorta DiamStenD1/D2	(G-0364, SRT, "Vessel Lumen Diameter") inside (T-42000, SRT, Aorta)
Aorta StenosisD	(R-101BB, SRT, "Lumen Diameter Stenosis") inside (T-42000, SRT, Aorta)

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AortaStenA1/A2	(G-0366, SRT, "Vessel Lumen Cross-Section Area") inside (T-42000, SRT, Aorta)
Aorta StenosisA	(R-101BA, SRT, "Lumen Area Stenosis") inside (T-42000, SRT, Aorta)

TABLE 15.10.3 ABDOMEN B-MODE MEASUREMENTS

15.11 DERIVATION AND SELECTION

GEU Name	Derivation	Selection
Av	Mean	User chosen value
Mx	Maximum	User chosen value
Mn	Minimum	User chosen value
Lt	Most recent value chosen	User chosen value
* (decided by another parameter)	Best Value	User chosen value

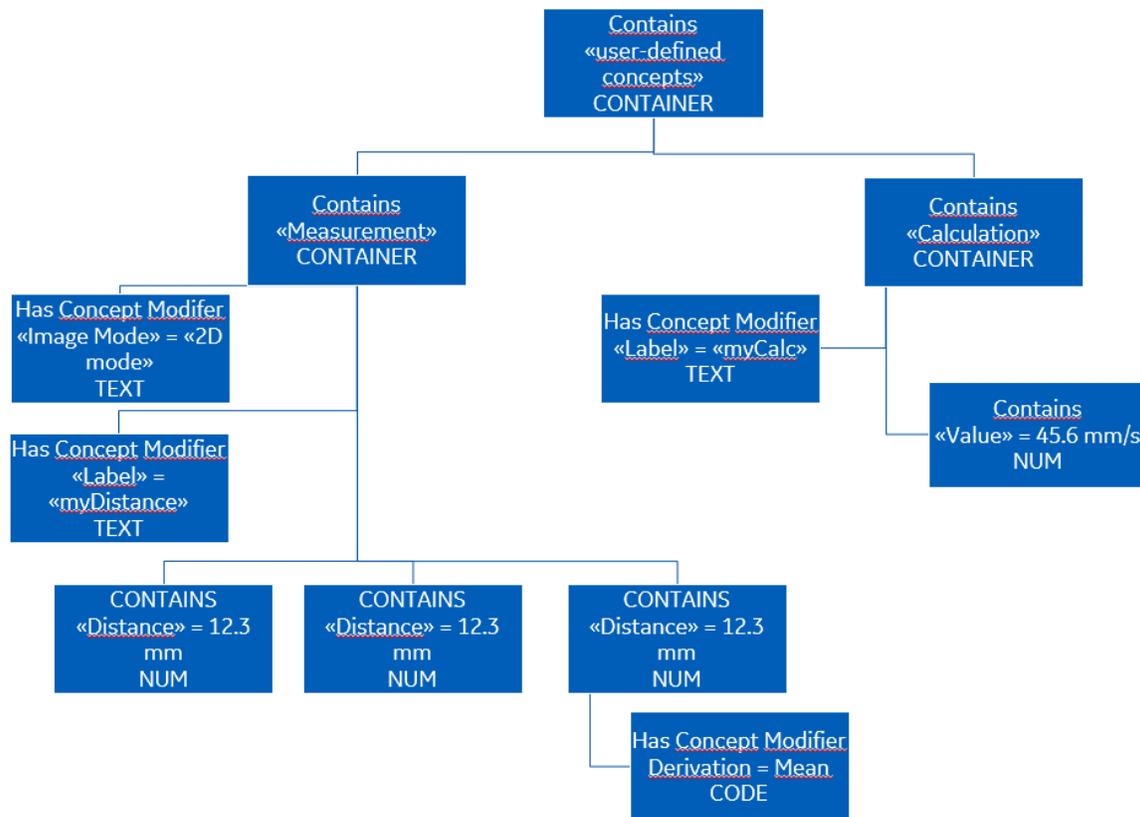
16. DICOM STRUCTURE REPORTS – USER DEFINED OBJECTS

The Vivid Ultrasound Scanner and EchoPAC provide the operator the ability to define measurements and export them in a manner compliant with established DICOM templates. This functionality is defined explicitly within the user manual for the Vivid scanner and EchoPAC application. Please consult the User Manual for more details and how to use this functionality.

16.1 GE DEFAULT DICOM EXPORT FORMAT

The GE Vivid Ultrasound Scanner and EchoPAC application allow the user to define measurements without specifying codes or meanings for the measurements. This default value is used when creating a user defined measurement within the Measurement menu. The measurements defined in this manner use a common structure.

Example of a user defined measurement format:



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16.2 TEMPLATE EXTENSIONS

16.2.1 TID5100: Vascular Ultrasound Report Extensions

	NL	Rel with Parent	VT	Concept Name	V M	Reg Type	Condition	Value Set Constraint
...
1 2	>	CONTAINS	INCLUDES	TID(9900) User-defined concepts	1	U		

16.2.2 TID5200: Adult Echo Template Report Extensions

	NL	Rel with Parent	VT	Concept Name	V M	Reg Type	Condition	Value Set Constraint
...
3 1	>	CONTAINS	INCLUDES	TID(9900) User-defined concepts	1	U		

16.2.3 TID5220: Pediatric Template Report Extensions

	NL	Rel with Parent	VT	Concept Name	V M	Reg Type	Condition	Value Set Constraint
...
3 1	>	CONTAINS	INCLUDES	TID(9900) User-defined concepts	1	U		

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16.2.4 TID9900: User-defined concepts

	NL	Rel with Parent	VT	Concept Name	V M	Reg Type	Condition	Value Set Constraint
1			CONTAINER	DT(T9900-01, 99GEMS, "User-defined concepts")	1	M		
2	>	CONTAINS	INCLUDE	TID(9901) User-defined concept	1-n	MC	One of row 2 and 3 must be present	\$Type = DT (T9900-02, 99GEMS, "Measurement")
3	>	CONTAINS	INCLUDE	TID(9901) User-defined concept	1-n	MC	One of row 2 and 3 must be present	\$Type = DT (T9900-03, 99GEMS, "Calculation")

16.2.5 TID9901: User-defined concept

	NL	Rel with Parent	VT	Concept Name	V M	Reg Type	Condition	Value Set Constraint
1			CONTAINER	\$Type	1	M		
2	>	HAS CONCEPT MOD	TEXT	DT(T9900-04, 99GEMS, "Label")	1	M		
3	>	CONTAINS	INCLUDE	TID (300)	1	1-n	IFF \$Type = "Measurement"	\$Measurement = DCID (99008) Results \$Derivation – (3627) Measurement Type
4	>	CONTAINS	INCLUDE	TID (300)	1	1	IFF \$Type = "Calculation"	\$Measurement = DT(T9900-05, 99GEMS, "Value")
5	>	INFERRED FROM	TEXT	DCID(228)	1	U		

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16.3 USER DEFINED DICOM MAPPINGS

The Vivid Ultrasound Scanner and EchoPAC application do allow for more specific DICOM mappings for user defined measurements.

Within the DICOM Mapping configuration Interface, the user will be presented with the Category and Parameter to map. The desired measurement must be chosen from these two fields to initiate the mapping process.

When defining the measurement in the Mappings Interface, the user is required to specify the following DICOM fields:

- Finding Site
- Coding Scheme Value
- Coding Scheme Designator
- Coding Scheme Meaning

There are other DICOM attributes available within the Mapping Interface which are optional to define. If defined, they may help describe the measurement more accurately.

These include:

- View
- Phase
- Method
- Target
- Direction
- Respiratory Cycle Point

The values defined for the measurement will be presented to the user within a DICOM Encoding dialogue box within the DICOM Mapping configuration page. This visual representation shows the DICOM fields mapped when exporting the user defined object within the DICOM Structured Report.

17. SECURITY

17.1 INTRODUCTION

The security section describes security features implemented by this product. It includes description of non-DICOM network protocols, information to configure firewalls and application whitelists, list of supported DICOM security profiles as well as Web Security features. Additionally, secured media storage, VPN, etc. are also specified in this security section.

17.2 EXTERNAL NETWORK REQUIREMENTS

**TABLE 17.2.1
EXTERNAL NETWORK REQUIREMENTS**

Profile	Actor	Transaction	Protocol Used	RFCs	Security support	Reference
Basic Network Address Management	DHCP Client	Find and Use DHCP Server	DHCP	RFC2131 RFC2132 RFC2563		C.1.2
		Maintain Lease	DHCP	RFC2131 RFC2132		C.1.2
	DNS Client	Resolve Hostname	DNS	RFC1035 RFC2181		C.1.2
Application Configuration Management	LDAP Client	Find LDAP Server	LDAP	RFC2181 RFC2219 RFC2782		C.1.3
		Query LDAP Server	LDAP	RFC2251		C.1.3

17.3 TCP PORT CONFIGURATION

Ports and firewall configuration needed for interconnections supported by the Vivid scanner are described in Vivid™ Ultrasound Systems and EchoPAC™ Privacy and Security Manual - GD092163-1EN.

17.4 DICOM® Security PROFILE AVAILABILITY

17.4.1 Secure Use and User Identity Profiles

**TABLE 17.4.1
SECURE USE AND USER IDENTITY PROFILES**

Profile	Creator/Sender	Consumer/Receiver	Reference
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Online Electronic Storage Secure Use	N	N	C.2.1
Audit Trail Message Format	N	N	C.2.2
Audit Trail Message Transmission Profile - SYSLOG-TLS	N	N	C.2.3
Audit Trail Message Transmission Profile - SYSLOG-UDP	N	N	C.2.4
Basic User Identity Association	N	N	8.5
User Identity Plus Passcode Association	N	N	8.5
Kerberos Identity Negotiation Association	N	N	8.5
Generic SAML Assertion Identity Negotiation Association	N	N	8.5

17.4.2 Secure Transport Connection Profiles

**TABLE 17.4.2
SECURE TRANSPORT CONNECTION PROFILES**

Profile	Creator/Sender	Consumer/Receiver	Reference
BCP195 TLS Secure Transport Connection	Y	N	C.2.5
Non-Downgrading BCP195 TLS Secure Transport Connection	N	N	C.2.5
CRYPTREC TLS	N	N	C.2.5

17.4.3 Media Storage Security Profiles

Not Applicable.

17.4.4 Digital Signature Profiles

Not Applicable.

17.4.5 Additional DICOM® Security Profiles supported

Not Applicable.

17.5 USER IDENTITY NEGOTIATION SUPPORTED

Not Applicable.

17.6 WEB SERVICES SECURITY FEATURES

Not Applicable.

17.7 ADDITIONAL SECURITY FEATURES

Not Applicable.

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17.7.1 Media storage security

Not Applicable.

17.7.2 Network security

Not Applicable.

17.7.3 Other security features

The Vivid system has multiple layers of security controls, including the following:

- user authentication with configurable user and password policies
- application whitelisting
- OS hardening
- embedded firewall
- encryption of patient data stored on the system.

See Vivid™ Ultrasound Systems and EchoPAC™ Privacy and Security Manual - GD092163-1EN for more details.

APPENDICES

A. Information Object Definitions (IODs)

This section provides the detailed content of the IODs natively created by the Vivid scanner, EchoPAC Software Only and EchoPAC Plug-in application, e.g., images created by an acquisition modality or evidence documents created on a review workstation application.

Throughout the tables listed in Annex A the following codes are used for the Source and Presence columns.

In the Source Column, the following values are supported:

FIXED: the value is pre-defined and cannot be modified.

GENERATED: the value is generated by the system.

CONFIGURATION: the value is copied from system configuration.

MWL: the value is copied from modality worklist.

USER: the value is entered by the user.

SCANNED: the value is read from a barcode scanner or similar device.

EMPTY: the attribute is sent without value.

SRC_INSTANCE: the value is copied from previously created instances.

The Presence columns reflect the usage of the module, functional group macro, attributes or value in the Vivid scanner and EchoPAC Software Only application implementation and is not necessarily the same as defined in the DICOM standard. For the Presence column the following values are supported:

ALWAYS: the module, functional group macro, attributes or value is always present

CONDITIONAL: the presence of the module, functional group macro, attributes or value is dependent on a condition. The condition must be listed in the Conditions column

EMPTY: The attribute is present but without a value (zero length)

A.1 Information Shared across multiple IODs

A.1.1 Shared Modules

All IODs generated by the system use the following common modules or a subset of them, as defined in the IOD specific subsections below.

TABLE A.1.1
SHARED MODULES

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
Patient							
Referenced Patient Sequence	(0008,1120)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there. Not used in SR	

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						Documents	
>Referenced SOP Class UID	(0008,1150)	MWL	ALWAYS	CONDITIONAL		Taken from worklist if it is there.	Not used in SR Documents
>Referenced SOP Instance UID	(0008,1155)	MWL	ALWAYS	CONDITIONAL		Taken from worklist if it is there.	Not used in SR Documents
Patient's Name	(0010,0010)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
Patient ID	(0010,0020)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
Issuer of Patient ID	(0010,0021)	MWL	ALWAYS	CONDITIONAL		Taken from worklist if it is there.	
Issuer of Patient ID Qualifiers Sequence	(0010,0024)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>Universal Entity ID	(0040,0032)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>Universal Entity ID Type	(0040,0033)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>Identifier Type Code	(0040,0035)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
Patient's Birth Date	(0010,0030)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
Patient's Birth Time	(0010,0032)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface.	

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						Taken from worklist if it is there.	
Patient's Sex	(0010,0040)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
Other Patient IDs	(0010,1000)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
Other Patient IDs Sequence	(0010,1002)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
>Patient ID	(0010,0020)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
>Issuer of Patient ID	(0010,0021)	MWL	CONDITIONAL	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
>Type of Patient ID	(0010,0022)	FIXED	ALWAYS	"TEXT"			
>Issuer of Patient ID Qualifiers Sequence	(0010,0024)	MWL	CONDITIONAL	ALWAYS		Taken from worklist if it is there.	
>>Universal Entity ID	(0040,0032)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>>Universal Entity ID Type	(0040,0033)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	

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>>Identifier Type Code	(0040,0035)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
Ethnic Group	(0010,2160)	MWL	ALWAYS	CONDITIONAL		Taken from worklist if it is there.	
Patient Comments	(0010,4000)	MWL	ALWAYS	CONDITIONAL		Taken from worklist if it is there.	
Patient Identity Removed	(0012,0062)	GENERATED	CONDITIONAL	CONDITIONAL		Present and set to "YES" if patient is anonymized.	
De-identification Method	(0012,0063)	GENERATED	CONDITIONAL	CONDITIONAL		Present and set to "GEVU anonymization" if patient is anonymized.	
General Study							
Study Date	(0008,0020)	GENERATED	ALWAYS	ALWAYS			Is set to examination date
Study Time	(0008,0030)	GENERATED	ALWAYS	ALWAYS			Is set to examination time
Accession Number	(0008,0050)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
Referring Physician's Name	(0008,0090)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
Study Description	(0008,1030)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there	

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						(from Requested Procedure Description).	
Physician(s) of Record	(0008,1048)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there (from Names of Intended Recipients of Result)	Not used in SR Documents
Referenced Study Sequence	(0008,1110)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there. Not used in SR Documents .	
>Referenced SOP Class UID	(0008,1150)	MWL	ALWAYS	CONDITIONAL		Taken from worklist if it is there.	
>Referenced SOP Instance UID	(0008,1155)	MWL	ALWAYS	CONDITIONAL		Taken from worklist if it is there.	
Study Instance UID	(0020,000D)	GENERATED/MWL	ALWAYS	CONDITIONAL		Uniquely generated by the equipment. Taken from worklist if it is there.	
Study ID	(0020,0010)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there (from Requested Procedure Id)	
Patient Study							
Patient's Size	(0010,1020)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	

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Patient's Weight	(0010,1030)	USER/MWL	ALWAYS	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there.	
Additional Patient History	(0010,21B0)	USER/MWL	CONDITIONAL	CONDITIONAL		May be entered from User Interface (in Referral reason). Taken from worklist if it is there.	
Admission ID	(0038,0010)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
General Series							
Series Date	(0008,0021)	GENERATED	ALWAYS	ALWAYS			Is set to Series date
Series Time	(0008,0031)	GENERATED	ALWAYS	ALWAYS			Is set to Series time
Modality	(0008,0060)	GENERATED	ALWAYS	ALWAYS	"US" or "SR"		
Series Description	(0008,103E)	USER	ALWAYS	CONDITIONAL		May be entered from User Interface (in Diagnosis).	
Performing Physician's Name	(0008,1050)	USER/MWL	CONDITIONAL	CONDITIONAL		May be entered from User Interface. Taken from worklist if it is there (from Scheduled Performing Physician's Name)	
Operators' Name	(0008,1070)	USER/ CONFIGURATIO N	ALWAYS	CONDITIONAL		May be entered from User Interface. Default is login id.	
Referenced Performed	(0008,1111)	SRC_INSTANCE	CONDITIONAL	ALWAYS		Used if Modality	

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Procedure Step Sequence						Performed Procedure Step is enabled.	
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	ALWAYS	ALWAYS		Used if Modality Performed Procedure Step is enabled.	
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	ALWAYS	ALWAYS		Used if Modality Performed Procedure Step is enabled.	
Protocol Name	(0018,1030)	CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if the image is acquired in a stress protocol.	
Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			Uniquely generated by the equipment
Series Number	(0020,0011)	GENERATED	ALWAYS	ALWAYS			Internal number which is incremented for each new series within a study.
Request Attributes Sequence	(0040,0275)		ALWAYS	ALWAYS			
>Accession Number	(0008,0050)	USER/MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>Referenced Study Sequence	(0008,1110)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>Study Instance UID	(0020,000D)	GENERATED/MWL	ALWAYS	ALWAYS		Taken from worklist if it is there.	
>Requested Procedure Description	(0032,1060)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>Requested Procedure Code Sequence	(0032,1064)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>Scheduled Procedure Step Description	(0040,0007)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	

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>Scheduled Protocol Code Sequence	(0040,0008)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>Scheduled Procedure Step ID	(0040,0009)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
>Requested Procedure ID	(0040,1001)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	
Performed Procedure Step Start Date	(0040,0244)	GENERATED	CONDITIONAL	CONDITIONAL		Used if Modality Performed Procedure Step is enabled.	
Performed Procedure Step Start Time	(0040,0245)	GENERATED	CONDITIONAL	CONDITIONAL		Used if Modality Performed Procedure Step is enabled.	
Performed Procedure Step ID	(0040,0253)	GENERATED	CONDITIONAL	CONDITIONAL		Used if Modality Performed Procedure Step is enabled.	
Performed Procedure Step Description	(0040,0254)	GENERATED	CONDITIONAL	CONDITIONAL		Used if Modality Performed Procedure Step is enabled.	
Performed Protocol Code Sequence	(0040,0260)	MWL/CONFIGURATION	CONDITIONAL	CONDITIONAL		Taken from worklist or selected protocol.	
General Equipment							
Manufacturer	(0008,0070)	FIXED	ALWAYS	ALWAYS	See Table A.1.3		
Institution Name	(0008,0080)	CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if the configured value is not empty.	
Station Name	(0008,1010)	CONFIGURATION	ALWAYS	ALWAYS			
Institutional Department Name	(0008,1040)	USER/CONFIGURATION	CONDITIONAL	CONDITIONAL		The default value is the configured Department name.	

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						May be overridden by the value entered in the Patient info screen.	
Manufacturer's Model Name	(0008,1090)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
Device Serial Number	(0018,1000)	GENERATED	ALWAYS	ALWAYS		The value is the serial number of the scanner. Not used in EchoPAC	
Software Versions	(0018,1020)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
General Image							
Content Date	(0008,0023)	GENERATED	ALWAYS	ALWAYS			Set from Image date.
Content Time	(0008,0033)	GENERATED	ALWAYS	ALWAYS			Set from Image time.
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
Acquisition DateTime	(0008,002A)	GENERATED	ALWAYS	ALWAYS			
Referenced Image Sequence	(0008,1140)	GENERATED	CONDITIONAL	CONDITIONAL		Written if the content of the object has been created based on other object(s)	
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	ALWAYS	ALWAYS			
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	ALWAYS	ALWAYS			
Derivation Description	(0008,2111)	GENERATED	CONDITIONAL	CONDITIONAL		May be written and contain additional derivation information if the Image Type is DERIVED.	

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Source Image Sequence	(0008,2112)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Used if the image is derived from another image	
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	ALWAYS	ALWAYS			May be used for source images.
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	ALWAYS	ALWAYS			May be used for source images.
Instance Number	(0020,0013)	GENERATED	ALWAYS	ALWAYS			Internal value which is incremented for each image within a series.
Patient Orientation	(0020,0020)	FIXED	ALWAYS	ALWAYS	EMPTY		
Image Comments	(0020,4000)	GENERATED	CONDITIONAL	CONDITIONAL		Sent if the image is acquired in a stress protocol.	
Burned In Annotation	(0028,0301)	FIXED	CONDITIONAL	ALWAYS	YES	Only sent if the image contains burned in annotations	
Lossy Image Compression	(0028,2110)	GENERATED	CONDITIONAL	ALWAYS	01	If the image is lossy compressed	
					00	Otherwise	
Lossy Image Compression Ratio	(0028,2112)	GENERATED	CONDITIONAL	ALWAYS		Only sent if the image is lossy compressed	
Image Pixel							
Samples per Pixel	(0028,0002)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
Rows	(0028,0010)	GENERATED	ALWAYS	ALWAYS			Value depends on scanning mode and configuration setup.

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Columns	(0028,0011)	GENERATED	ALWAYS	ALWAYS			Value depends on scanning mode and configuration setup.
Bits Allocated	(0028,0100)	FIXED	ALWAYS	ALWAYS	8		
Bits Stored	(0028,0101)	FIXED	ALWAYS	ALWAYS	8		
High Bit	(0028,0102)	FIXED	ALWAYS	ALWAYS	7		
Pixel Representation	(0028,0103)	FIXED	ALWAYS	ALWAYS	0		0 – unsigned integer
Planar Configuration	(0028,0006)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
Red Palette Color Lookup Table Descriptor	(0028,1101)	GENERATED	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Green Palette Color Lookup Table Descriptor	(0028,1102)	GENERATED	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Blue Palette Color Lookup Table Descriptor	(0028,1103)	GENERATED	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Red Palette Color Lookup Table Data	(0028,1201)	GENERATED	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Green Palette Color Lookup Table Data	(0028,1202)	GENERATED	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Blue Palette Color Lookup Table Data	(0028,1203)	GENERATED	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Pixel Data	(7FE0,0010)	GENERATED	ALWAYS	ALWAYS			Pixel Data of image.
Palette Color Lookup Table							
Red Palette Color Lookup Table Descriptor	(0028,1101)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	

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Green Palette Color Lookup Table Descriptor	(0028,1102)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Blue Palette Color Lookup Table Descriptor	(0028,1103)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Red Palette Color Lookup Table Data	(0028,1201)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Green Palette Color Lookup Table Data	(0028,1202)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
Blue Palette Color Lookup Table Data	(0028,1203)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only used when reading Palette images.	
US Region Calibration							
Sequence of Ultrasound Regions	(0018,6011)	GENERATED	ALWAYS	ALWAYS			
>Region Spatial Format	(0018,6012)	GENERATED	ALWAYS	ALWAYS			
>Region Data Type	(0018,6014)	GENERATED	ALWAYS	ALWAYS			
>Region Flags	(0018,6016)	GENERATED	ALWAYS	ALWAYS	Bit 0: 0 (Opaque) Bit 1: 0 (Not Protected because there may be other regions within the image) Bit 2: 0 (Velocity)		
>Region Location Min X0	(0018,6018)	GENERATED	ALWAYS	ALWAYS			Varies with scanning mode.
>Region Location Min Y0	(0018,601A)	GENERATED	ALWAYS	ALWAYS			Varies with scanning mode.
>Region Location Max X1	(0018,601C)	GENERATED	ALWAYS	ALWAYS			Value is image width-1.

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>Region Location Max Y1	(0018,601E)	GENERATED	ALWAYS	ALWAYS			Value is image height-1.
>Reference Pixel X0	(0018,6020)	GENERATED	CONDITIONAL	ALWAYS		Varies with scanning mode.	
>Reference Pixel Y0	(0018,6022)	GENERATED	CONDITIONAL	ALWAYS		Varies with scanning mode.	
>Physical Units X Direction	(0018,6024)	GENERATED	ALWAYS	ALWAYS			Values supported: 3 (cm) 4 (seconds)
>Physical Units Y Direction	(0018,6026)	GENERATED	ALWAYS	ALWAYS			Values supported: 3 (cm) 4 (seconds) 7 (cm/sec)
>Reference Pixel Physical Value X	(0018,6028)	GENERATED	CONDITIONAL	ALWAYS		Varies with scanning mode.	
>Reference Pixel Physical Value Y	(0018,602A)	GENERATED	CONDITIONAL	ALWAYS		Varies with scanning mode.	
>Physical Delta X	(0018,602C)	GENERATED	ALWAYS	ALWAYS			Varies with scanning mode.
>Physical Delta Y	(0018,602E)	GENERATED	ALWAYS	ALWAYS			Varies with scanning mode.
>Transducer Frequency	(0018,6030)	GENERATED	CONDITIONAL	ALWAYS		Sent if relevant for the image	
>Pulse Repetition Frequency	(0018,6032)	GENERATED	CONDITIONAL	ALWAYS		Sent if relevant for the image	
>Pixel Component Organization	(0018,6044)	GENERATED	CONDITIONAL	ALWAYS		Pixel component calibration data does not exist for any region.	
US Image							
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
Stage Name	(0008,2120)	USER/CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if image is acquired in	Name of stage of stress test.

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						a stress test.	
Stage Number	(0008,2122)	USER/CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if image is acquired in a stress test.	The stress test stage number when acquiring the image; starting at value 1.
Number of Stages	(0008,2124)	USER/CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if image is acquired in a stress test.	
View Name	(0008,2127)	USER/CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if image is acquired in a stress test.	The stress test view name when acquiring the image. The name is defined in the User Interface.
View Number	(0008,2128)	USER/CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if image is acquired in a stress test.	The stress test view number when acquiring the image; starting at value 1.
Number of Event Timers	(0008,2129)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only used when reading images.	
Number of Views in Stage	(0008,212A)	USER/CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if image is acquired in a stress test.	
Event Elapsed Time(s)	(0008,2130)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only used when reading images.	
Event Timer Name(s)	(0008,2132)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only used when reading images.	
Heart Rate	(0018,1088)	GENERATED	ALWAYS	ALWAYS			Set to the detected heart rate.
R Wave Time Vector	(0018,6060)	GENERATED	CONDITIONAL	CONDITIONAL		Used if relevant for the image	May be filled in with timing information.
Samples per Pixel	(0028,0002)	GENERATED	ALWAYS	ALWAYS	See		

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					Table A.1.3		
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
Planar Configuration	(0028,0006)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
Frame Increment Pointer	(0028,0009)	GENERATED	CONDITIONAL	CONDITIONAL			
Ultrasound Color Data Present	(0028,0014)	GENERATED	ALWAYS	ALWAYS			
Bits Allocated	(0028,0100)	FIXED	ALWAYS	ALWAYS	8		
Bits Stored	(0028,0101)	FIXED	ALWAYS	ALWAYS	8		
High Bit	(0028,0102)	FIXED	ALWAYS	ALWAYS	7		
Pixel Representation	(0028,0103)	FIXED	ALWAYS	ALWAYS	0		
Lossy Image Compression	(0028,2110)	GENERATED	ALWAYS	CONDITIONAL		Set to 1 if the image is compressed using JPEG Baseline compression. Otherwise, set to 0.	
Stage Code Sequence	(0040,000A)	USER/CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if image is acquired in a stress test.	Coded stage name of stress test. The name is defined in the User Interface.
View Code Sequence	(0054,0220)	USER/CONFIGURATION	CONDITIONAL	CONDITIONAL		Sent if the image is acquired in a stress test.	The coded view name of the stress test. The name is defined in the User Interface.
VOI LUT							
Window Center	(0028,1050)	FIXED	CONDITIONAL	CONDITIONAL	Value set to 127 if Photometric Interpretation has value MONOCHROME2	Only used for images created from CT data.	
Window Width	(0028,1051)	FIXED	CONDITIONAL	CONDITIONAL	Value set to 256 if Photometric Interpretation has value MONOCHROME2	Only used for images created from CT data.	
SOP Common							

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SOP Class UID	(0008,0016)	GENERATED	ALWAYS	ALWAYS	See Table A.1.3		
SOP Instance UID	(0008,0018)	GENERATED	ALWAYS	ALWAYS			Uniquely generated by the equipment.

A.1.2 Common Functional Group Macros

N/A

A.1.3 Shared Private Modules

Table A.1.2 lists private attributes that are used in multiple IODs generated by the system. For documentation convenience and readability, they are organized in modules, although the concept of modules does not exist in the standard for private attributes.

**TABLE A.1.2
SHARED PRIVATE MODULES**

Attribute Name	Tag	VR	VM	Contains PHI	Presence (Attribute)	Presence (Value)	Value	Conditions	Description
GEMS_Ultrasound_MovieGroup_001									
Private Creator	7FE1,00xx	LO	1	No	CONDITIONAL	ALWAYS	GEMS_Ultrasound_MovieGroup_001	Used in DICOM US modality objects if Allow Raw Data is enabled	If so configured, the product will send ultrasound raw data information in private data elements designated by this Private Creator element. All private tags starting with 7FE1,xx will belong to the GEMS_Ultrasound_MovieGroup_001.
GEMS_Ultrasound_ImageGroup_001									
Private Creator	6003,00xx	LO	1	Yes	CONDITIONAL	ALWAYS	GEMS_Ultrasound_ImageGroup_001	Used in DICOM US modality objects	The product will include ultrasound preview image in private data elements designated by the Private Creator element.

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Attribute Name	Tag	VR	VM	Contains PHI	Presence (Attribute)	Presence (Value)	Value	Conditions	Description
									All private tags starting with 6003,xx will belong to the GEMS_Ultrasound_ImageGroup_001.
GEMS_Ultrasound_ExamGroup_001									
Private Creator	6005,00xx	LO	1	Yes	CONDITIONAL	ALWAYS	GEMS_Ultrasound_ExamGroup_001	Used in DICOM SR modality objects with Allow Private Data enabled	The product will send exam information in private data elements designated by the Private Creator element All private tags starting with 6005,00xx will belong to the GEMS_Ultrasound_ExamGroup_001.

A.1.4 Shared Values and Code Sets

The following Shared Values and Code Sets are used in multiple IODs generated by the system.

**TABLE A.1.3
SHARED VALUES AND CODE SETS**

Attribute Name	Tag	Value/Code	Condition	Comments
Image Type	(0008,0008)	The first two values contain "ORIGINAL\PRIMARY" or "DERIVED\PRIMARY". Value 3 is always empty. Value 4 is a description of the mode. Values beyond this may be used for private data.		
Manufacturer	(0008,0070)	GE Vingmed Ultrasound		
SOP Class UID	(0008,0016)	1.2.840.10008.5.1.4.1.1.3.1	Ultrasound Multiframe Image Storage	
		1.2.840.10008.5.1.4.1.1.3	Ultrasound Multiframe Image Storage (retired)	

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		1.2.840.10008.5.1.4.1.1.6.1	Ultrasound Image Storage	
		1.2.840.10008.5.1.4.1.1.6	Ultrasound Image Storage (retired)	
		1.2.840.10008.5.1.4.1.1.7	Secondary Capture Image Storage	
		1.2.840.10008.5.1.4.1.1.88.33	Comprehensive SR	
Manufacturer's Model Name	(0008,1090)	Vivid E80	Based on the product, the value is set to any of these	
		Vivid E90		
		Vivid E95		
		Vivid iq		
		Vivid S60		
		Vivid S70		
		Vivid T8		
		Vivid T9		
		EchoPAC		
		EchoPAC PC Integrated		
Software Versions	(0018,1020)	<Model Name>:206.<x>	The <Model Name> has the same value as element (0008,1090), whereas <x> denotes the current minor/patch/build version of the SW.	
Samples per Pixel	(0028,0002)	1	If the Photometric Interpretation element value is any of: <ul style="list-style-type: none"> • MONOCHROME 2 • PALETTE COLOR (only for read) 	
		3	If the Photometric Interpretation element value is any of: <ul style="list-style-type: none"> • RGB • YBR_FULL • YBR_FULL_422 	
Photometric Interpretation	(0028,0004)	MONOCHROME2	Grayscale Images	
		RGB	When compression is any of: <ul style="list-style-type: none"> • None • JPEG Lossless 	
		YBR_FULL	When compression is: <ul style="list-style-type: none"> • RLE 	
		YBR_FULL_422	When compression is:	

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			<ul style="list-style-type: none"> • JPEG Lossy 	
		PALETTE COLOR	Only supported for read	
Planar Configuration	(0028,0006)	0 (color by pixel)	When the Photometric Interpretation element value is any of: <ul style="list-style-type: none"> • RGB • YBR_FULL_422 	
		1 (color by plane)	When the Photometric Interpretation element value is: <ul style="list-style-type: none"> • YBR_FULL 	

A.2 Ultrasound Image IOD

The following table defines the structure of Ultrasound Image IOD.

**TABLE A.2.1
ULTRASOUND IMAGE IOD MODULES**

Module Name	Presence (Module)	Condition	Reference
Patient	ALWAYS		Table A.1.1
General Study	ALWAYS		Table A.1.1
Patient Study	ALWAYS		Table A.1.1
General Series	ALWAYS		Table A.1.1
General Equipment	ALWAYS		Table A.1.1
General Image	ALWAYS		Table A.1.1
Image Pixel	ALWAYS		Table A.1.1
Contrast/Bolus	CONDITIONAL	Only used when filled in by the user	Table A.2.1
Palette Color Lookup Table	CONDITIONAL	Only used when reading Palette images.	Table A.1.1
US Region Calibration	CONDITIONAL	Only used when the characteristics of the image (depth, scale, etc.) are constant throughout the whole recording interval.	Table A.1.1
US Image	ALWAYS		Table A.1.1
VOI LUT	CONDITIONAL	Only used for images created from CT data.	Table A.1.1
SOP Common	ALWAYS		Table A.1.1

A.2.1 Ultrasound Image IOD Specific Modules

See Table A.1.1

Shared modules”. None of the modules are specific to the Ultrasound Image IOD.

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A.2.2 Ultrasound Image IOD Specific Functional Group Macros

N/A

A.2.3 Ultrasound Image IOD Specific Private Modules

N/A

A.2.4 Ultrasound Image IOD Specific Values and Code Sets

N/A

A.3 Ultrasound Multi-frame Image IOD

The following table defines the structure of Ultrasound Multi-frame Image IOD.

TABLE A.3.1
ULTRASOUND MULTI-FRAME IMAGE IOD

Module Name	Presence (Module)	Condition	Reference
Patient	ALWAYS		Table A.1.1
General Study	ALWAYS		Table A.1.1
Patient Study	ALWAYS		Table A.1.1
General Series	ALWAYS		Table A.1.1
General Equipment	ALWAYS		Table A.1.1
General Image	ALWAYS		Table A.1.1
Image Pixel	ALWAYS		Table A.1.1
Contrast/Bolus	CONDITIONAL	Only used when filled in by the user	Table A.1.1
Cine	ALWAYS		Table A.3.2
Multi-frame	ALWAYS		Table A.3.2
Palette Color Lookup Table	CONDITIONAL	Only used when reading Palette images	Table A.1.1
US Region Calibration	CONDITIONAL	Only used when the characteristics of the image (depth, scale, etc.) are constant throughout the whole recording interval.	Table A.1.1
US Image	ALWAYS		Table A.1.1
VOI LUT	CONDITIONAL	Only used for images created from CT data.	Table A.1.1
SOP Common	ALWAYS		Table A.1.1

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A.3.1 Ultrasound Multi-frame Image IOD Specific Modules

**TABLE A.3.2
ULTRASOUND MULTI-FRAME IMAGE IOD SPECIFIC MODULES**

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
Cine							
Start Trim	(0008,2142)	GENERATED	ALWAYS	ALWAYS			
Stop Trim	(0008,2143)	GENERATED	ALWAYS	ALWAYS			
Recommended Display Frame Rate	(0008,2144)	GENERATED	ALWAYS	ALWAYS			
Cine Rate	(0018,0040)	GENERATED	ALWAYS	ALWAYS			
Effective Duration	(0018,0072)	GENERATED	ALWAYS	ALWAYS			
Frame Time	(0018,1063)	GENERATED	ALWAYS	ALWAYS			Is set to the interframe time
Frame Time Vector	(0018,1065)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Only reading is supported.	The average frame time is calculated and written to the Frame Time attribute.
Frame Delay	(0018,1066)	GENERATED	ALWAYS	ALWAYS			
Actual Frame Duration	(0018,1242)	GENERATED	ALWAYS	ALWAYS			
Preferred Playback Sequencing	(0018,1244)	FIXED	ALWAYS	ALWAYS	0 (looping)		
Multiframe							
Number of Frames	(0028,0008)	GENERATED	ALWAYS	ALWAYS			Is set to the number of frames in image
Frame Increment Pointer	(0028,0009)	GENERATED	ALWAYS	ALWAYS			Is set to Frame Time (0018,1063) or Frame Time Vector (0018,1065)

A.3.2 Ultrasound Multi-frame Image IOD Specific Functional Group Macros

N/A

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A.3.3 Ultrasound Multi-frame Image IOD Specific Private Modules

N/A

A.3.4 Ultrasound Multi-frame Image IOD Specific Values and Code Sets

N/A

A.4 Secondary Capture Image IOD

The following table defines the structure of Secondary Capture Image IOD.

**TABLE A.4.1
SECONDARY CAPTURE IMAGE IOD**

Module Name	Presence (Module)	Condition	Reference
Patient	ALWAYS		Table A.1.1
General Study	ALWAYS		Table A.1.1
Patient Study	ALWAYS		Table A.1.1
General Series	ALWAYS		Table A.1.1
General Equipment	ALWAYS		Table A.1.1
SC Equipment	ALWAYS		Table A.4.2
General Image	ALWAYS		Table A.1.1
Image Pixel	ALWAYS		Table A.1.1
SC Image	ALWAYS		Table A.4.2
VOI LUT	ALWAYS		Table A.1.1
SOP Common	ALWAYS		Table A.1.1

A.4.1 Secondary Capture Image IOD Specific Modules

**TABLE A.4.2
SECONDARY CAPTURE IMAGE IOD SPECIFIC MODULES**

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
SC Equipment							
Modality	(0008,0060)	FIXED	ALWAYS	ALWAYS	"US"		
Conversion Type	(0008,0064)	FIXED	ALWAYS	ALWAYS	"WSD"		
Secondary Capture Device ID	(0018,1010)	FIXED	ALWAYS	ALWAYS	Same as the value of (0008,1090) "Manufacturer's Model Name"		

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Secondary Capture Device Manufacturer	(0018,1016)	FIXED	ALWAYS	ALWAYS	Same as the value of (0008,0070) "Manufacturer"		
Secondary Capture Device Manufacturer's Model Name	(0018,1018)	FIXED	ALWAYS	ALWAYS	Same as the value of (0008,1090) "Manufacturer's Model Name"		
Secondary Capture Device Software Versions	(0018,1019)	FIXED	ALWAYS	ALWAYS	Same as the value of (0018,1020) "Software Versions"		
SC Image							
Date of Secondary Capture	(0018,1012)	GENERATED	ALWAYS	ALWAYS			
Time of Secondary Capture	(0018,1014)	GENERATED	ALWAYS	ALWAYS			

A.4.2 Secondary Capture Image IOD Specific Functional Group Macros

N/A

A.4.3 Secondary Capture Image IOD Specific Private Modules

N/A

A.4.4 Secondary Capture Image IOD Specific Values and Code Sets

N/A

A.5 Basic Directory IOD

The following table defines the structure of the Basic Directory IOD:

**TABLE A.5.1
BASIC DIRECTORY IOD MODULES**

Module Name	Presence (Module)	Condition	Reference
File Set Identification	ALWAYS		Table A.5.1
Directory Information	ALWAYS		Table A.5.1

A.5.1 Basic Directory IOD Specific Modules

**TABLE A.5.2
BASIC DIRECTORY IOD SPECIFIC MODULES**

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
File Set Identification Module							
File-set ID	(0004,1130)	FIXED	ALWAYS	ALWAYS	Empty		
Directory Information Module							
Offset of the First Directory Record of the Root Directory Entity	(0004,1200)	GENERATED	ALWAYS	ALWAYS			
Offset of the Last Directory Record of the Root Directory Entity	(0004,1202)	GENERATED	ALWAYS	ALWAYS			
File-set Consistency Flag	(0004,1212)	GENERATED	ALWAYS	ALWAYS	0	If FSC/FSU. Ignored when reading (if FSR)	0 = no known inconsistencies
Directory Record Sequence	(0004,1220)	GENERATED	ALWAYS	ALWAYS			Is created by FSC
>Offset of the Next Directory Record	(0004,1400)	GENERATED	ALWAYS	ALWAYS			
>Record In-use Flag	(0004,1410)	GENERATED	ALWAYS	ALWAYS	FFFFH (65535)	If FSC/FSU	The whole record is skipped during reading (if FSR) if the value is 0.
>Offset of Referenced Lower-Level Directory Entity	(0004,1420)	GENERATED	ALWAYS	ALWAYS			
>Directory Record Type	(0004,1430)	SRC_INSTANCE, GENERATED	ALWAYS	ALWAYS	PATIENT, STUDY, SERIES, IMAGE, SR DOCUMENT		These are the supported values when writing

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>Referenced File ID	(0004,1500)	GENERATED	CONDITIONAL	CONDITIONAL	File path consisting of 5 elements: 1.GEMS_IMG or GEMS_REP 2.Month of exam 3.Day of exam 4.Patient initials and time of exam 5.Time stamp	Set only if Record Type is IMAGE or SR DOCUMENT	GEMS_IMG" Is used if IMAGE. GEMS_REP is used if SR DOCUMENT.
>Referenced SOP Class UID in File	(0004,1510)	GENERATED	CONDITIONAL	ALWAYS		Set only if Record Type is IMAGE or SR DOCUMENT	
>Referenced SOP Instance UID in File	(0004,1511)	GENERATED	CONDITIONAL	ALWAYS		Set only if Record Type is IMAGE or SR DOCUMENT	
>Referenced Transfer Syntax UID in File	(0004,1512)	GENERATED	CONDITIONAL	ALWAYS		Set only if Record Type is IMAGE or SR DOCUMENT	
>Record Selection Keys							See Table A.5.3 – Table A.5.7

A.5.2 Basic Directory IOD Specific Functional Group Macros

The records in the Directory Records Sequence are filled with additional attributes depending on the Record Type, as described in the below tables.

The following comment is referenced in the below tables:

- 1) Is filled in by FSC and FSU as in chapters 4, 5, 6 and 7.

TABLE A.5.3
ATTRIBUTES SPECIFIC TO RECORD TYPE PATIENT

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
Specific Character Set	(0008,0005)	GENERATED	CONDITIONAL	CONDITIONAL			See 1)
Patient's Name	(0010,0010)	USER/MWL	ALWAYS	CONDITIONAL			
Patient ID	(0010,0020)	USER/MWL	ALWAYS	CONDITIONAL			See 1). If empty, a Patient Id is created by the equipment.
Patient's Birth Date	(0010,0030)	USER/MWL	ALWAYS	CONDITIONAL			See 1)

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Patient's Sex	(0010,0040)	USER/MWL	ALWAYS	CONDITIONAL			See 1)
Referenced Patient Sequence	(0008,1120)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Taken from worklist if it is there.	See 1)
>Referenced SOP Class UID	(0008,1150)	MWL	ALWAYS	CONDITIONAL			See 1)
>Referenced SOP Instance UID	(0008,1155)	MWL	ALWAYS	CONDITIONAL			See 1)
Patient's Birth Time	(0010,0032)	USER/MWL	ALWAYS	CONDITIONAL			See 1)
Other Patient Ids	(0010,1000)	USER/MWL	ALWAYS	CONDITIONAL			See 1)
Other Patient Names	(0010,1001)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Taken from source image if there	See 1)
Ethnic Group	(0010,2160)	MWL	ALWAYS	CONDITIONAL			See 1)
Patient Comments	(0010,4000)	MWL	ALWAYS	CONDITIONAL			See 1)

**TABLE A.5.4
ATTRIBUTES SPECIFIC TO RECORD TYPE STUDY**

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
Specific Character Set	(0008,0005)	GENERATED	CONDITIONAL	CONDITIONAL			See 1)
Study Date	(0008,0020)	GENERATED	ALWAYS	ALWAYS			See 1). If empty, a Study Date is created by the equipment.
Study Time	(0008,0030)	GENERATED	ALWAYS	ALWAYS			See 1). If empty, a Study Time is created by the equipment.
Accession Number	(0008,0050)	USER/MWL	ALWAYS	CONDITIONAL			See 1)
Referring Physician's Name	(0008,0090)	USER/MWL	ALWAYS	CONDITIONAL			See 1)
Study Description	(0008,1030)	USER/MWL	ALWAYS	CONDITIONAL			See 1)
Physician(s) of Record	(0008,1048)	MWL	CONDITIONAL	CONDITIONAL			See 1)
Name of Physician(s) Reading Study	(0008,1060)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Taken from source image if there	See 1)
Referenced Study Sequence	(0008,1110)	FIXED	ALWAYS	ALWAYS	Empty		See 1)

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>Referenced SOP Class UID	(0008,1150)	MWL	ALWAYS	CONDITIONAL			See 1)
>Referenced SOP Instance UID	(0008,1155)	MWL	ALWAYS	CONDITIONAL			See 1)
Admitting Diagnoses Description	(0008,1080)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Taken from source image if there	See 1)
Patient's Age	(0010,1010)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Taken from source image if there	See 1)
Patient's Size	(0010,1020)	USER/MWL	ALWAYS	CONDITIONAL			See 1)
Patient's Weight	(0010,1030)	USER/MWL	ALWAYS	CONDITIONAL			See 1)
Occupation	(0010,2180)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Taken from source image if there	See 1)
Additional Patient's History	(0010,2180)	USER/MWL	CONDITIONAL	CONDITIONAL			See 1)
Study Instance UID	(0020,000D)	GENERATED/MWL	ALWAYS	CONDITIONAL			See 1)
Study ID	(0020,0010)	USER/MWL	ALWAYS	CONDITIONAL			See 1). If empty, a Study Id is created by the equipment.

**TABLE A.5.5
ATTRIBUTES SPECIFIC TO RECORD TYPE SERIES**

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
Specific Character Set	(0008,0005)	GENERATED	CONDITIONAL	CONDITIONAL			Is filled in by FSC or FSU as contained in the image or SR document message, if one of the tags contains extended characters
Series Date	(0008,0021)	GENERATED	ALWAYS	ALWAYS			As in 1) if the instance is IMAGE.
Series Time	(0008,0031)	GENERATED	ALWAYS	ALWAYS			As in 1) if the instance is IMAGE.
Modality	(0008,0060)	GENERATED	ALWAYS	ALWAYS	"US" or "SR"		See 1)
Manufacturer	(0008,0070)	FIXED	ALWAYS	ALWAYS	See Table A.1.3		See 1)

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Institution Name	(0008,0080)	CONFIGURATIO N	CONDITIONAL	CONDITIONAL			See 1)
Station Name	(0008,1010)	CONFIGURATIO N	ALWAYS	ALWAYS			See 1)
Series Description	(0008,103E)	USER	ALWAYS	CONDITIONAL			As in 1) if the instance is IMAGE.
Institutional Department Name	(0008,1040)	USER/ CONFIGURATIO N	CONDITIONAL	CONDITIONAL			See 1)
Performing Physicians' Name	(0008,1050)	USER/MWL	CONDITIONAL	CONDITIONAL			As in 1) if the instance is IMAGE.
Operator's Name	(0008,1070)	USER/ CONFIGURATIO N	ALWAYS	CONDITIONAL			As in 1) if the instance is IMAGE.
Manufacturer's Model Name	(0008,1090)	GENERATED	ALWAYS	ALWAYS			See 1)
Referenced Performed Procedure Step Sequence	(0008,1111)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Used if Modality Performed Procedure Step is enabled.	See 1)
>Referenced SOP Class UID	(0008,1150)	SRC_INSTANCE	ALWAYS	ALWAYS			See 1)
>Referenced SOP Instance UID	(0008,1155)	SRC_INSTANCE	ALWAYS	ALWAYS			See 1)
Software Versions	(0018,1020)	GENERATED	ALWAYS	ALWAYS			See 1)
Protocol Name	(0018,1030)	CONFIGURATIO N	CONDITIONAL	CONDITIONAL			As in 1) if the instance is IMAGE.
Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			See 1)
Series Number	(0020,0011)	GENERATED	ALWAYS	ALWAYS			See 1). If empty, a Series Number is created by the equipment.
Performed Procedure Step Start Date	(0040,0244)	GENERATED	CONDITIONAL	CONDITIONAL			As in 1) if the instance is IMAGE.
Performed Procedure Step Start Time	(0040,0245)	GENERATED	CONDITIONAL	CONDITIONAL			As in 1) if the instance is IMAGE.
Performed Procedure Step ID	(0040,0253)	SRC_INSTANCE	CONDITIONAL	CONDITIONAL		Used if Modality Performed Procedure Step is enabled.	As in 1) if the instance is IMAGE.

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Performed Procedure Step Description	(0040,0254)	GENERATED	CONDITIONAL	CONDITIONAL		Used if Modality Performed Procedure Step is enabled.	As in 1) if the instance is IMAGE.
Performed Protocol Code Sequence	(0040,0260)	MWL/ CONFIGURATIO N	CONDITIONAL	CONDITIONAL		Taken from worklist or selected protocol.	
Request Attributes Sequence	(0040,0275)		ALWAYS	CONDITIONAL		The content depends on the available values	As in 1) if the instance is IMAGE.
>Scheduled Procedure Step Description	(0040,0007)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist	As in 1) if the instance is IMAGE.
>Scheduled Protocol Code Sequence	(0040,0008)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist	As in 1) if the instance is IMAGE.
>Scheduled Procedure Step ID	(0040,0009)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist	As in 1) if the instance is IMAGE.
>Requested Procedure ID	(0040,1001)	MWL	CONDITIONAL	CONDITIONAL		Taken from worklist	As in 1) if the instance is IMAGE.

**TABLE A.5.6
ATTRIBUTES SPECIFIC TO RECORD TYPE IMAGE**

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
Specific Character Set	(0008,0005)	GENERATED	CONDITIONAL	CONDITIONAL			See 1)
Image Type	(0008,0008)	GENERATED	ALWAYS	ALWAYS			See 1)
Content Date	(0008,0023)	GENERATED	ALWAYS	ALWAYS			See 1)
Content Time	(0008,0033)	GENERATED	ALWAYS	ALWAYS			See 1)
Contrast/Bolus Agent	(0018,0010)	USER	CONDITIONAL	CONDITIONAL			See 1)
Instance Number	(0020,0013)	GENERATED	ALWAYS	ALWAYS			See 1). If empty, an Instance Number is created by the equipment.
Photometric Interpretation	(0028,0004)	GENERATED	ALWAYS	ALWAYS			See 1)
Number Of Frames	(0028,0008)	GENERATED	ALWAYS	ALWAYS			See 1)
Rows	(0028,0010)	GENERATED	ALWAYS	ALWAYS			See 1)

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Columns	(0028,0011)	GENERATED	ALWAYS	ALWAYS			See 1)
Lossy Image Compression	(0028,2110)	GENERATED	CONDITIONAL	ALWAYS			See 1)
Lossy Image Compression Ratio	(0028,2112)	GENERATED	CONDITIONAL	ALWAYS			See 1)

**TABLE A.5.7
ATTRIBUTES SPECIFIC TO RECORD TYPE SR DOCUMENT**

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
Specific Character Set	(0008,0005)	GENERATED	CONDITIONAL	CONDITIONAL			See 1)
Content Date	(0008,0023)	GENERATED	ALWAYS	ALWAYS			See 1)
Content Time	(0008,0033)	GENERATED	ALWAYS	ALWAYS			See 1)
Instance Number	(0020,0013)	GENERATED	ALWAYS	ALWAYS			See 1). If empty, an Instance Number is created by the equipment.
Concept Name Code Sequence	(0040,A043)	GENERATED	ALWAYS	ALWAYS			See 1)
Completion Flag	(0040,A491)	FIXED	ALWAYS	ALWAYS	PARTIAL		See 1)
Verification Flag	(0040,A493)	FIXED	ALWAYS	ALWAYS	UNVERIFIED		See 1)

A.5.3 Basic Directory IOD Specific Private Modules

N/A

A.5.4 Basic Directory IOD Specific Values and Code Sets

N/A

A.6 Comprehensive SR IOD

The following table defines the structure of the Comprehensive Structured Report IOD:

**TABLE A.6.1
COMPREHENSIVE SR IOD MODULES**

Module Name	Presence (Module)	Condition	Reference
Patient	ALWAYS		Table A.1.1
General Study	ALWAYS		Table A.1.1
Patient Study	ALWAYS		Table A.1.1
SR Document Series	ALWAYS		Table A.6.2
General Equipment	ALWAYS		Table A.1.1
SR Document General	ALWAYS		Table A.6.2

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SR Document Content	ALWAYS		Table A.6.2
SOP Common	ALWAYS		Table A.1.1

A.6.1 Comprehensive SR IOD Specific Modules

**TABLE A.6.2
COMPREHENSIVE SR SPECIFIC MODULES**

Attribute Name	Tag	Source	Presence (Attribute)	Presence (Value)	Value	Conditions	Comment
SR Document Series							
Modality	(0008,0060)	FIXED	ALWAYS	ALWAYS	SR		
Referenced Performed Procedure Step Sequence	(0008,1111)	GENERATED	ALWAYS	ALWAYS	Performed Procedure Step SOP Instance.	If MPPS enabled.	
					Empty.	If MPPS disabled.	
>Referenced SOP Class UID	(0008,1150)	GENERATED	CONDITIONAL	ALWAYS		Used if Modality Performed Procedure Step is enabled.	
>Referenced SOP Instance UID	(0008,1155)	GENERATED	CONDITIONAL	ALWAYS		Used if Modality Performed Procedure Step is enabled.	
Series Instance UID	(0020,000E)	GENERATED	ALWAYS	ALWAYS			Uniquely generated by the equipment
Series Number	(0020,0011)	GENERATED	ALWAYS	ALWAYS			Internal number which is incremented for each new series within a study.
SR Document General							
Content Date	(0008,0023)	GENERATED	ALWAYS	ALWAYS			Date of creation
Content Time	(0008,0033)	GENERATED	ALWAYS	ALWAYS			Time of creation
Instance Number	(0020,0013)	GENERATED	ALWAYS	ALWAYS			Internal number which is incremented for each new SR document within a series.
Referenced Request Sequence	(0040,A370)	GENERATED	ALWAYS	ALWAYS			

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>Study Instance UID	(0020,000D)	GENERATED	ALWAYS	ALWAYS			Taken from Study Instance UID in General Study Module
>Referenced Study Sequence	(0008,1110)	FIXED	ALWAYS	ALWAYS	Empty		
>Accession Number	(0008,0050)	GENERATED	ALWAYS	ALWAYS			Taken from Accession Number in General Study Module
>Placer Order Number/Imaging Service Request	(0040,2016)	FIXED	ALWAYS	ALWAYS	Empty		
>Filler Order Number/Imaging Service Request	(0040,2017)	FIXED	ALWAYS	ALWAYS	Empty		
>Requested Procedure ID	(0040,1001)	GENERATED	ALWAYS	ALWAYS	Taken from worklist	If worklist is the source	
					Empty	If worklist is not the source	
>Requested Procedure Description	(0032,1060)				Taken from worklist	If worklist is the source	
					Empty	If worklist is not the source	
>Requested Procedure Code Sequence	(0032,1064)	FIXED	ALWAYS	ALWAYS	Empty		
Performed Procedure Code Sequence	(0040,A372)	FIXED	ALWAYS	ALWAYS	Empty		
Completion Flag	(0040,A491)	FIXED	ALWAYS	ALWAYS	PARTIAL		
Verification Flag	(0040,A493)	FIXED	ALWAYS	ALWAYS	UNVERIFIED		
SR Document Content							
Value Type	(0040,A040)	FIXED	ALWAYS	ALWAYS	CONTAINER		
Concept Name Code Sequence	(0040,A043)	GENERATED	ALWAYS	ALWAYS			
>Code Value	(0008,0100)	GENERATED	ALWAYS	ALWAYS	125200	If TID 5200	
					125195	If TID 5220	
					125100	If TID 5100	
>Coding Scheme Designator	(0008,0102)	GENERATED	ALWAYS	ALWAYS	DCM		
>Code Meaning	(0008,0104)	GENERATED	ALWAYS	ALWAYS	Adult Echocardiograph	If TID 5200	

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					y Procedure Report		
					Pediatric Cardiac Ultrasound Report	If TID 5220	
					Vascular Ultrasound Procedure Report	If TID 5100	
Continuity of Content	(0040,A050)	FIXED	ALWAYS	ALWAYS	SEPARATE		
Content Template Sequence	(0040,A504)	GENERATED	ALWAYS	ALWAYS			
>Mapping Resource	(0008,0105)	FIXED	ALWAYS	ALWAYS	DCMR		
>Template Identifier	(0040,DB00)	GENERATED	ALWAYS	ALWAYS	5200 or 5100 or 5220		
Content Sequence	(0040,A730)	GENERATED	ALWAYS	ALWAYS			See template "Adult Echocardiography Procedure Report" or "Pediatric Cardiac Ultrasound Report" or "Vascular Ultrasound Procedure Report".
> Relationship Type	(0040,A010)	GENERATED	ALWAYS	ALWAYS			See template "Adult Echocardiography Procedure Report" or "Pediatric Cardiac Ultrasound Report" or "Vascular Ultrasound Procedure Report".
> SR Document Content Module		GENERATED	ALWAYS	ALWAYS			See template "Adult Echocardiography Procedure Report" or "Pediatric Cardiac Ultrasound Report" or "Vascular Ultrasound Procedure Report".

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**A.6.2 Comprehensive SR IOD Specific Functional Group
Macros**

N/A

A.6.3 Comprehensive SR IOD Specific Private Modules

N/A

A.6.4 Comprehensive SR IOD Specific Values and Code Sets

N/A

B. Structured Report Content Encoding

B.1 Vascular Ultrasound Procedure Report (TID 5100)

See chapter 15 “Vascular Ultrasound Procedure Report”.

B.2 Adult Echocardiography Procedure Report (TID 5200)

See chapters 14 “Adult and Pediatric Echocardiography Procedure Reports”.

B.3 Pediatric Cardiac Ultrasound Reports (TID 5220)

See chapters 14 “Adult and Pediatric Echocardiography Procedure Reports”.

B.4 User Defined Template Structure

See chapter 16 “DICOM Structure Reports – User Defined objects”.

C. Security Details

C.1 External Network Requirements details

C.1.1 Basic Time Synchronization

Not Applicable.

C.1.2 Basic Network Address Management

Standard functionality supported. Some of the configurable parameters are listed in the table below.

Parameters
DHCP Enabled/disabled
IP-address
Subnet mask
Default gateway
Obtain DNS address automatically
Preferred and alternative DNS server IP-address
List of DNS servers
NetBIOS settings
Speed and Duplex

C.1.3 Application Configuration Management

Actor	LDAP Security Pattern	Supported	Comments
LDAP Client	Anonymous	Y	
	Authenticated	Y	
	TLS - Anonymous	Y	
	TLS – Authenticated	Y	

C.1.4 DNS Service Discovery

Standard functionality supported.

C.2 DICOM® Security Profile Details

C.2.1 Online Electronic Storage Secure Use

Not Applicable.

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C.2.2 Audit Trail Messages

Not Applicable.

C.2.3 Audit Trail Message Transmission Profile – Syslog – TLS

Not Applicable.

C.2.4 Audit Trail Message Transmission Profile - Syslog-UDP

Not Applicable.

C.2.5 Secure Transport Connection Details

The scanner supports import of public certificates and private certificate key through configuration user interface. The product uses these certificate/key for authentication and encryption when it acts as a TLS server and when it acts as a TLS client.

SECURE TRANSPORT CONNECTION PROFILES AND CIPHER SUITES

Profile	Cipher Suite	Default Preference Order (from 1=preferred to n=less preferred)
BCP195 TLS Secure Transport Connection	TLS_RSA_WITH_AES_128_CBC_SHA	1
	TLS_RSA_WITH_3DES_EDE_CBC_SHA	2
Non-Downgrading BCP195 TLS Secure Transport Connection	NA	
CRYPTREC TLS	NA	

The following table describes the Secure Transport Connection configuration parameters supported by this product:

Local Secure Transport Connection configuration parameters			
Parameter	Configurable	Default Value	Comment
Port			See Section Error! Reference source not found. Error! Reference source not found.
Remote Secure Transport Connection configuration parameters			
Parameter	Configurable	Default Value	Comment
Port			See Section Error! Reference source not found. Error! Reference source not found.

C.2.6 Attribute Confidentiality Details

Not Applicable.

C.2.7 Digital Signature details

Not Applicable.

C.2.8 Additional DICOM® Security Profiles supported

Not Applicable.

D. Mapping of Attributes

D.1 Modality Worklist, Instances and MPPS messages

The table below describes the mapping of attributes between Modality Worklist, Instances and MPPS messages.

In the Scenarios column the following values are supported:

SCHEDULED: the image acquisition was scheduled at the RIS and procedure details have been communicated in the MWL query)

UNSCHEDULED: the image acquisition was performed without Modality Worklist information

APPEND: instances acquired are added to an existing study after the initial procedure was finalized

GROUP: multiple requested procedures are grouped into one study.]

In the Value Source columns, the following values are supported:

GENERATED: the value is generated by the system.

SRC_INSTANCE: the value is copied from previously created instances.

MWL: the value is copied from modality worklist.

USER: the value is entered by the user.

SCANNED: the value is read from a barcode scanner or similar device.

EMPTY: the attribute is sent without value.

The Destination column uses either ROOT, if the attribute is added to the root of the instance or list the attribute Tag of the Sequence, the attribute will be added to. The comment column can be used to provide additional information regarding the values added to the IOD.

TABLE D.1.1
ATTRIBUTE MAPPING

Attribute Name	Tag	Scenario	Image		MPPS		Comments
			Value Source	Destination Tag	Value Source	Destination Tag	
Study Instance UID	(0020,000D)	SCHEDULED	MWL	ROOT	SRC_INSTANCE	(0040,0270)	
		UNSCHEDULED	GENERATED	ROOT	EMPTY	(0040,0270)	
		APPEND	SRC_INSTANCE	ROOT	SRC_INSTANCE	(0040,0270)	
Accession Number	(0008,0050)	SCHEDULED	MWL	ROOT	SRC_INSTANCE	(0040,0270)	
		UNSCHEDULED	EMPTY	ROOT	EMPTY	(0040,0270)	
		APPEND	SRC_INSTANCE	ROOT	SRC_INSTANCE	(0040,0270)	
Modality	(0008,0060)	SCHEDULED	MWL	ROOT	SRC_INSTANCE	ROOT	US or SR, from Scheduled Procedure Step Sequence (0040,0100), MWL from (0008,0060)

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Attribute Name	Tag	Scenario	Image		MPPS		Comments
			Value Source	Destination Tag	Value Source	Destination Tag	
		UNSCHEDULED	GENERATED	ROOT	SRC_INSTANCE	ROOT	US or SR, from Scheduled Procedure Step Sequence (0040,0100), MWL from (0008,0060)
		APPEND	SRC_INSTANCE	ROOT	SRC_INSTANCE	ROOT	US or SR, from Scheduled Procedure Step Sequence (0040,0100), MWL from (0008,0060)
Referenced Study Sequence	(0008,1110)	SCHEDULED	MWL	(0040,0275) ^(a) (0040,A370) ^(b)	SRC_INSTANCE	(0040,0270)	
		UNSCHEDULED	N/A	N/A	EMPTY	(0040,0270)	
		APPEND	SRC_INSTANCE	(0040,0275) ^(a) (0040,A370) ^(b)	SRC_INSTANCE	(0040,0270)	
Referenced SOP Class UID	(0008,1150)	SCHEDULED	MWL	ROOT	SRC_INSTANCE	(0008,1120)	
		UNSCHEDULED	EMPTY	ROOT	SRC_INSTANCE	(0008,1120)	
		APPEND	SRC_INSTANCE	ROOT	SRC_INSTANCE	(0008,1120)	
Referenced SOP Instance UID	(0008,1155)	SCHEDULED	MWL	ROOT	SRC_INSTANCE	(0008,1120)	
		UNSCHEDULED	EMPTY	ROOT	SRC_INSTANCE	(0008,1120)	
		APPEND	SRC_INSTANCE	ROOT	SRC_INSTANCE	(0008,1120)	
Study ID	(0020,0010)	SCHEDULED	GENERATED	ROOT	SRC_INSTANCE	ROOT	Copied from Requested Procedure ID (0040,1001)
		UNSCHEDULED	USER	ROOT	SRC_INSTANCE	ROOT	Copied from Requested Procedure ID (0040,1001)
		APPEND	GENERATED	ROOT	SRC_INSTANCE	(0040,0270)	Copied from Requested Procedure ID (0040,1001)
Requested Procedure Description	(0032,1060)	SCHEDULED	MWL	(0040,0275) ^(a) (0040,A370) ^(b)	SRC_INSTANCE	(0040,0270)	To Performed Procedure Step Description (0040,0254)
		UNSCHEDULED	N/A	N/A	EMPTY	(0040,0270)	To Performed Procedure Step Description (0040,0254)
		APPEND	SRC_INSTANCE	(0040,0275) ^(a) (0040,A370) ^(b)	SRC_INSTANCE	(0040,0270)	To Performed Procedure Step Description (0040,0254)
Requested Procedure Code Sequence	(0032,1064)	SCHEDULED	MWL	(0040,0275) ^(a) (0040,A370) ^(b)	SRC_INSTANCE	(0008,1032)	To Procedure Code Sequence
		UNSCHEDULED	N/A	N/A	EMPTY	(0008,1032)	To Procedure Code Sequence
		APPEND	SRC_INSTANCE	(0040,0275) ^(a) (0040,A370) ^(b)	SRC_INSTANCE	(0008,1032)	To Procedure Code Sequence

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Attribute Name	Tag	Scenario	Image		MPPS		Comments
			Value Source	Destination Tag	Value Source	Destination Tag	
Requested Procedure ID	(0040,1001)	SCHEDULED	MWL	(0040,0275) ^(a) (0040,A370) ^(b)	SRC_INST ANCE	(0040,0270)	^(a) for use in Image IODs ^(b) for use in Evidence Documents
		UNSCHEDULED	N/A	N/A	EMPTY	(0040,0270)	
		APPEND	SRC_INST ANCE	(0040,0275) ^(a) (0040,A370) ^(b)	SRC_INST ANCE	(0040,0270)	^(a) for use in Image IODs ^(b) for use in Evidence Documents
Scheduled Performing Physician's Name	(0040,0006)	SCHEDULED	MWL	ROOT	SRC_INST ANCE	ROOT	Maps to the attribute "Performing Physician's Name"
		UNSCHEDULED	EMPTY	ROOT	SRC_INST ANCE	ROOT	Maps to the attribute "Performing Physician's Name"
		APPEND	SRC_INST ANCE	ROOT	SRC_INST ANCE	ROOT	Maps to the attribute "Performing Physician's Name"
Scheduled Procedure Step Description	(0040,0007)	SCHEDULED	MWL	(0040,0275) ^(a) N/A ^(b)	SRC_INST ANCE	(0040,0270)	
		UNSCHEDULED	N/A	N/A	EMPTY	(0040,0270)	
		APPEND	SRC_INST ANCE	(0040,0275) ^(a) N/A ^(b)	SRC_INST ANCE	(0040,0270)	
Scheduled Protocol Code Sequence	(0040,0008)	SCHEDULED	MWL	(0040,0275) ^(a) N/A ^(b)	SRC_INST ANCE	(0040,0270)	
		UNSCHEDULED	N/A	N/A	EMPTY	(0040,0270)	
		APPEND	SRC_INST ANCE	(0040,0275) ^(a) N/A ^(b)	SRC_INST ANCE	(0040,0270)	
Scheduled Procedure Step ID	(0040,0009)	SCHEDULED	MWL	(0040,0275) ^(a) N/A ^(b)	SRC_INST ANCE	(0040,0270)	
		UNSCHEDULED	N/A	N/A	EMPTY	(0040,0270)	
		APPEND	SRC_INST ANCE	(0040,0275) ^(a) N/A ^(b)	SRC_INST ANCE	(0040,0270)	
Patient Name	(0010,0010)	SCHEDULED	MWL	ROOT	SRC_INST ANCE	ROOT	
		UNSCHEDULED	USER	ROOT	SRC_INST ANCE	ROOT	
		APPEND	SRC_INST ANCE	ROOT	SRC_INST ANCE	ROOT	
Patient ID	(0010,0020)	SCHEDULED	MWL	ROOT	SRC_INST ANCE	ROOT	
		UNSCHEDULED	USER	ROOT	SRC_INST ANCE	ROOT	

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Attribute Name	Tag	Scenario	Image		MPPS		Comments
			Value Source	Destination Tag	Value Source	Destination Tag	
		APPEND	SRC_INSTANCE	ROOT	SRC_INSTANCE	ROOT	
Patient Birth Date	(0010,0030)	SCHEDULED	MWL	ROOT	SRC_INSTANCE	ROOT	
		UNSCHEDULED	USER	ROOT	SRC_INSTANCE	ROOT	
		APPEND	SRC_INSTANCE	ROOT	SRC_INSTANCE	ROOT	
Patient Sex	(0010,0040)	SCHEDULED	MWL	ROOT	SRC_INSTANCE	ROOT	
		UNSCHEDULED	USER	ROOT	SRC_INSTANCE	ROOT	
		APPEND	SRC_INSTANCE	ROOT	SRC_INSTANCE	ROOT	
Admission ID	(0038,0010)	SCHEDULED	MWL	ROOT	SRC_INSTANCE	ROOT	
		UNSCHEDULED	EMPTY	ROOT	SRC_INSTANCE	ROOT	
		APPEND	SRC_INSTANCE	ROOT	SRC_INSTANCE	ROOT	

^(a) for use in Image IODs

^(b) for use in Evidence Documents

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