



Release VA40A / 2024-06-19 / Revision 9763

syngo.share import

DICOM 3.0 Conformance Statement

Unrestricted

Build ID e7bd261e6f9c77ae618429b48d862c5e22704131e04121c690cd21b4d8b68456

Overview

Content and transfer

Table 1: Supported Storage SOP Classes

SOP Class	SOP Class UID	DIMSE services		DICOM web services		Media services		Function			
		SCU	SCP	UA	OS	FSC	FSR	Create	Display	Process	Archive
Stored Print Storage (Retired)	1.2.840.10008.5.1.1.27	Y	N	N	N	N	Y	N	N	N	N
Hardcopy Grayscale Image Storage (Retired)	1.2.840.10008.5.1.1.29	Y	N	N	N	N	Y	N	Y	N	N
Hardcopy Color Image Storage (Retired)	1.2.840.10008.5.1.1.30	Y	N	N	N	N	Y	N	N	N	N
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	Y	N	N	N	N	Y	N	Y	N	N
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	Y	N	N	N	N	Y	N	Y	N	N
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	Y	N	N	N	N	Y	N	Y	N	N
Digital Mammography X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.2	Y	N	N	N	N	Y	N	Y	N	N
Digital Mammography X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	Y	N	N	N	N	Y	N	Y	N	N
Digital Intra-Oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	Y	N	N	N	N	Y	N	Y	N	N
Digital Intra-Oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	Y	N	N	N	N	Y	N	Y	N	N
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	Y	N	N	N	N	Y	N	Y	N	N
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	Y	N	N	N	N	Y	N	Y	N	N
Legacy Converted Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.2	Y	N	N	N	N	Y	N	Y	N	N
Ultrasound Multi-frame Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.3	Y	N	N	N	N	Y	N	Y	N	N
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Y	N	N	N	N	Y	N	Y	N	N
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	Y	N	N	N	N	Y	N	Y	N	N
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	Y	N	N	N	N	Y	N	Y	N	N
MR Spectroscopy Storage	1.2.840.10008.5.1.4.1.1.4.2	Y	N	N	N	N	Y	N	N	N	N
Enhanced MR Color Image Storage	1.2.840.10008.5.1.4.1.1.4.3	Y	N	N	N	N	Y	N	Y	N	N
Legacy Converted Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.4	Y	N	N	N	N	Y	N	N	N	N
Nuclear Medicine Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.5	Y	N	N	N	N	Y	N	N	N	N
Ultrasound Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.6	Y	N	N	N	N	Y	N	Y	N	N
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Y	N	N	N	N	Y	N	Y	N	N
Enhanced US Volume Storage	1.2.840.10008.5.1.4.1.1.6.2	Y	N	N	N	N	Y	N	Y	N	N

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Photoacoustic Image Storage	1.2.840.10008.5.1.4.1.1.6.3	Y	N	N	N	N	Y	N	N	N	N
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Y	N	N	N	N	Y	N	Y	N	N
Multi-frame Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	Y	N	N	N	N	Y	S	Y	N	N
Multi-frame Grayscale Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	Y	N	N	N	N	Y	S	Y	N	N
Multi-frame Grayscale Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	Y	N	N	N	N	Y	S	Y	N	N
Multi-frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	Y	N	N	N	N	Y	S	Y	N	N
Standalone Overlay Storage (Retired)	1.2.840.10008.5.1.4.1.1.8	Y	N	N	N	N	Y	N	N	N	N
Standalone Curve Storage (Retired)	1.2.840.10008.5.1.4.1.1.9	Y	N	N	N	N	Y	N	N	N	N
Waveform Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.9.1	Y	N	N	N	N	Y	N	N	N	N
12-lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	Y	N	N	N	N	Y	N	Y	N	N
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	Y	N	N	N	N	Y	N	Y	N	N
Ambulatory ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.3	Y	N	N	N	N	Y	N	N	N	N
General 32-bit ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.4	Y	N	N	N	N	Y	N	N	N	N
Hemodynamic Waveform Storage	1.2.840.10008.5.1.4.1.1.9.2.1	Y	N	N	N	N	Y	N	Y	N	N
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	Y	N	N	N	N	Y	N	N	N	N
Basic Voice Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.1	Y	N	N	N	N	Y	N	N	N	N
General Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.2	Y	N	N	N	N	Y	N	N	N	N
Arterial Pulse Waveform Storage	1.2.840.10008.5.1.4.1.1.9.5.1	Y	N	N	N	N	Y	N	N	N	N
Respiratory Waveform Storage	1.2.840.10008.5.1.4.1.1.9.6.1	Y	N	N	N	N	Y	N	N	N	N
Multi-channel Respiratory Waveform Storage	1.2.840.10008.5.1.4.1.1.9.6.2	Y	N	N	N	N	Y	N	N	N	N
Routine Scalp Electroencephalogram Waveform Storage	1.2.840.10008.5.1.4.1.1.9.7.1	Y	N	N	N	N	Y	N	N	N	N
Electromyogram Waveform Storage	1.2.840.10008.5.1.4.1.1.9.7.2	Y	N	N	N	N	Y	N	N	N	N
Electrooculogram Waveform Storage	1.2.840.10008.5.1.4.1.1.9.7.3	Y	N	N	N	N	Y	N	N	N	N
Sleep Electroencephalogram Waveform Storage	1.2.840.10008.5.1.4.1.1.9.7.4	Y	N	N	N	N	Y	N	N	N	N
Body Position Waveform Storage	1.2.840.10008.5.1.4.1.1.9.8.1	Y	N	N	N	N	Y	N	N	N	N
Standalone Modality LUT Storage (Retired)	1.2.840.10008.5.1.4.1.1.10	Y	N	N	N	N	Y	N	N	N	N
Standalone VOI LUT Storage (Retired)	1.2.840.10008.5.1.4.1.1.11	Y	N	N	N	N	Y	N	N	N	N
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1	Y	N	N	N	N	Y	N	N	N	N
Color Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.2	Y	N	N	N	N	Y	N	N	N	N
Pseudo-Color Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.3	Y	N	N	N	N	Y	N	N	N	N
Blending Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.4	Y	N	N	N	N	Y	N	N	N	N

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XA/XRF Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.5	Y	N	N	N	N	Y	N	N	N	N
Grayscale Planar MPR Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.6	Y	N	N	N	N	Y	N	N	N	N
Compositing Planar MPR Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.7	Y	N	N	N	N	Y	N	N	N	N
Advanced Blending Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.8	Y	N	N	N	N	Y	N	N	N	N
Volume Rendering Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.9	Y	N	N	N	N	Y	N	N	N	N
Segmented Volume Rendering Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.10	Y	N	N	N	N	Y	N	N	N	N
Multiple Volume Rendering Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.11	Y	N	N	N	N	Y	N	N	N	N
Variable Modality LUT Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.12	Y	N	N	N	N	Y	N	N	N	N
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Y	N	N	N	N	Y	N	Y	N	N
Enhanced XA Image Storage	1.2.840.10008.5.1.4.1.1.12.1.1	Y	N	N	N	N	Y	N	Y	N	N
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	Y	N	N	N	N	Y	N	Y	N	N
Enhanced XRF Image Storage	1.2.840.10008.5.1.4.1.1.12.2.1	Y	N	N	N	N	Y	N	N	N	N
X-Ray Angiographic Bi-Plane Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.12.3	Y	N	N	N	N	Y	N	N	N	N
X-Ray 3D Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.13.1.1	Y	N	N	N	N	Y	N	N	N	N
X-Ray 3D Craniofacial Image Storage	1.2.840.10008.5.1.4.1.1.13.1.2	Y	N	N	N	N	Y	N	N	N	N
Breast Tomosynthesis Image Storage	1.2.840.10008.5.1.4.1.1.13.1.3	Y	N	N	N	N	Y	N	Y	N	N
Breast Projection X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.13.1.4	Y	N	N	N	N	Y	N	N	N	N
Breast Projection X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.13.1.5	Y	N	N	N	N	Y	N	N	N	N
Intravascular Optical Coherence Tomography Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.14.1	Y	N	N	N	N	Y	N	N	N	N
Intravascular Optical Coherence Tomography Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.14.2	Y	N	N	N	N	Y	N	N	N	N
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	Y	N	N	N	N	Y	N	Y	N	N
Parametric Map Storage	1.2.840.10008.5.1.4.1.1.30	Y	N	N	N	N	Y	N	N	N	N
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	Y	N	N	N	N	Y	N	N	N	N
Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.1	Y	N	N	N	N	Y	N	N	N	N
Spatial Fiducials Storage	1.2.840.10008.5.1.4.1.1.66.2	Y	N	N	N	N	Y	N	N	N	N
Deformable Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.3	Y	N	N	N	N	Y	N	N	N	N
Segmentation Storage	1.2.840.10008.5.1.4.1.1.66.4	Y	N	N	N	N	Y	N	Y	N	N
Surface Segmentation Storage	1.2.840.10008.5.1.4.1.1.66.5	Y	N	N	N	N	Y	N	N	N	N

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Tractography Results Storage	1.2.840.10008.5.1.4.1.1.66.6	Y	N	N	N	N	Y	N	N	N	N
Real World Value Mapping Storage	1.2.840.10008.5.1.4.1.1.67	Y	N	N	N	N	Y	N	N	N	N
Surface Scan Mesh Storage	1.2.840.10008.5.1.4.1.1.68.1	Y	N	N	N	N	Y	N	N	N	N
Surface Scan Point Cloud Storage	1.2.840.10008.5.1.4.1.1.68.2	Y	N	N	N	N	Y	N	N	N	N
VL Image Storage (Retired)	1.2.840.10008.5.1.4.1.1.77.1	Y	N	N	N	N	Y	N	N	N	N
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1	Y	N	N	N	N	Y	N	Y	N	N
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	Y	N	N	N	N	Y	N	Y	N	N
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2	Y	N	N	N	N	Y	N	Y	N	N
Video Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.2.1	Y	N	N	N	N	Y	N	Y	N	N
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.3	Y	N	N	N	N	Y	N	N	N	N
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4	Y	N	N	N	N	Y	N	Y	N	N
Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.4.1	Y	N	N	N	N	Y	N	Y	N	N
Ophthalmic Photography 8 Bit Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.1	Y	N	N	N	N	Y	N	Y	N	N
Ophthalmic Photography 16 Bit Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.2	Y	N	N	N	N	Y	N	N	N	N
Stereometric Relationship Storage	1.2.840.10008.5.1.4.1.1.77.1.5.3	Y	N	N	N	N	Y	N	N	N	N
Ophthalmic Tomography Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.4	Y	N	N	N	N	Y	N	Y	N	N
Wide Field Ophthalmic Photography Stereographic Projection Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.5	Y	N	N	N	N	Y	N	N	N	N
Wide Field Ophthalmic Photography 3D Coordinates Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.6	Y	N	N	N	N	Y	N	N	N	N
Ophthalmic Optical Coherence Tomography En Face Image Storage	1.2.840.10008.5.1.4.1.1.77.1.5.7	Y	N	N	N	N	Y	N	N	N	N
Ophthalmic Optical Coherence Tomography B-scan Volume Analysis Storage	1.2.840.10008.5.1.4.1.1.77.1.5.8	Y	N	N	N	N	Y	N	N	N	N
VL Whole Slide Microscopy Image Storage	1.2.840.10008.5.1.4.1.1.77.1.6	Y	N	N	N	N	Y	N	N	N	N
Dermoscopic Photography Image Storage	1.2.840.10008.5.1.4.1.1.77.1.7	Y	N	N	N	N	Y	N	N	N	N
VL Multi-frame Image Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.77.2	Y	N	N	N	N	Y	N	N	N	N
Lensometry Measurements Storage	1.2.840.10008.5.1.4.1.1.78.1	Y	N	N	N	N	Y	N	N	N	N
Autorefractometry Measurements Storage	1.2.840.10008.5.1.4.1.1.78.2	Y	N	N	N	N	Y	N	N	N	N
Keratometry Measurements Storage	1.2.840.10008.5.1.4.1.1.78.3	Y	N	N	N	N	Y	N	N	N	N
Subjective Refraction Measurements Storage	1.2.840.10008.5.1.4.1.1.78.4	Y	N	N	N	N	Y	N	N	N	N
Visual Acuity Measurements Storage	1.2.840.10008.5.1.4.1.1.78.5	Y	N	N	N	N	Y	N	N	N	N

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Spectacle Prescription Report Storage	1.2.840.10008.5.1.4.1.1.78.6	Y	N	N	N	N	Y	N	N	N	N
Ophthalmic Axial Measurements Storage	1.2.840.10008.5.1.4.1.1.78.7	Y	N	N	N	N	Y	N	N	N	N
Intraocular Lens Calculations Storage	1.2.840.10008.5.1.4.1.1.78.8	Y	N	N	N	N	Y	N	N	N	N
Macular Grid Thickness and Volume Report	1.2.840.10008.5.1.4.1.1.79.1	Y	N	N	N	N	Y	N	N	N	N
Ophthalmic Visual Field Static Perimetry Measurements Storage	1.2.840.10008.5.1.4.1.1.80.1	Y	N	N	N	N	Y	N	N	N	N
Ophthalmic Thickness Map Storage	1.2.840.10008.5.1.4.1.1.81.1	Y	N	N	N	N	Y	N	N	N	N
Corneal Topography Map Storage	1.2.840.10008.5.1.4.1.1.82.1	Y	N	N	N	N	Y	N	N	N	N
Text SR Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.88.1	Y	N	N	N	N	Y	N	N	N	N
Audio SR Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.88.2	Y	N	N	N	N	Y	N	N	N	N
Detail SR Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.88.3	Y	N	N	N	N	Y	N	N	N	N
Comprehensive SR Storage - Trial (Retired)	1.2.840.10008.5.1.4.1.1.88.4	Y	N	N	N	N	Y	N	N	N	N
Basic Text SR Storage	1.2.840.10008.5.1.4.1.1.88.11	Y	N	N	N	N	Y	N	Y	N	N
Enhanced SR Storage	1.2.840.10008.5.1.4.1.1.88.22	Y	N	N	N	N	Y	N	Y	N	N
Comprehensive SR Storage	1.2.840.10008.5.1.4.1.1.88.33	Y	N	N	N	N	Y	N	Y	N	N
Comprehensive 3D SR Storage	1.2.840.10008.5.1.4.1.1.88.34	Y	N	N	N	N	Y	N	N	N	N
Extensible SR Storage	1.2.840.10008.5.1.4.1.1.88.35	Y	N	N	N	N	Y	N	N	N	N
Procedure Log Storage	1.2.840.10008.5.1.4.1.1.88.40	Y	N	N	N	N	Y	N	N	N	N
Mammography CAD SR Storage	1.2.840.10008.5.1.4.1.1.88.50	Y	N	N	N	N	Y	N	Y	N	N
Key Object Selection Document Storage	1.2.840.10008.5.1.4.1.1.88.59	Y	N	N	N	N	Y	N	Y	N	N
Chest CAD SR Storage	1.2.840.10008.5.1.4.1.1.88.65	Y	N	N	N	N	Y	N	N	N	N
X-Ray Radiation Dose SR Storage	1.2.840.10008.5.1.4.1.1.88.67	Y	N	N	N	N	Y	N	Y	N	N
Radiopharmaceutical Radiation Dose SR Storage	1.2.840.10008.5.1.4.1.1.88.68	Y	N	N	N	N	Y	N	N	N	N
Colon CAD SR Storage	1.2.840.10008.5.1.4.1.1.88.69	Y	N	N	N	N	Y	N	N	N	N
Implantation Plan SR Storage	1.2.840.10008.5.1.4.1.1.88.70	Y	N	N	N	N	Y	N	N	N	N
Acquisition Context SR Storage	1.2.840.10008.5.1.4.1.1.88.71	Y	N	N	N	N	Y	N	N	N	N
Simplified Adult Echo SR Storage	1.2.840.10008.5.1.4.1.1.88.72	Y	N	N	N	N	Y	N	N	N	N
Patient Radiation Dose SR Storage	1.2.840.10008.5.1.4.1.1.88.73	Y	N	N	N	N	Y	N	N	N	N
Planned Imaging Agent Administration SR Storage	1.2.840.10008.5.1.4.1.1.88.74	Y	N	N	N	N	Y	N	N	N	N
Performed Imaging Agent Administration SR Storage	1.2.840.10008.5.1.4.1.1.88.75	Y	N	N	N	N	Y	N	N	N	N
Enhanced X-Ray Radiation Dose SR Storage	1.2.840.10008.5.1.4.1.1.88.76	Y	N	N	N	N	Y	N	N	N	N
Content Assessment Results Storage	1.2.840.10008.5.1.4.1.1.90.1	Y	N	N	N	N	Y	N	N	N	N

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SOP Class	SOP Class UID	DIMSE services		DICOM web services		Media services		Function			
		SCU	SCP	UA	OS	FSC	FSR	Create	Display	Process	Archive
Microscopy Bulk Simple Annotations Storage	1.2.840.10008.5.1.4.1.1.91.1	Y	N	N	N	N	Y	N	N	N	N
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	Y	N	N	N	N	Y	S	Y	N	N
Encapsulated CDA Storage	1.2.840.10008.5.1.4.1.1.104.2	Y	N	N	N	N	Y	N	N	N	N
Encapsulated STL Storage	1.2.840.10008.5.1.4.1.1.104.3	Y	N	N	N	N	Y	N	N	N	N
Encapsulated OBJ Storage	1.2.840.10008.5.1.4.1.1.104.4	Y	N	N	N	N	Y	N	N	N	N
Encapsulated MTL Storage	1.2.840.10008.5.1.4.1.1.104.5	Y	N	N	N	N	Y	N	N	N	N
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128	Y	N	N	N	N	Y	N	Y	N	N
Legacy Converted Enhanced PET Image Storage	1.2.840.10008.5.1.4.1.1.128.1	Y	N	N	N	N	Y	N	N	N	N
Standalone PET Curve Storage (Retired)	1.2.840.10008.5.1.4.1.1.129	Y	N	N	N	N	Y	N	N	N	N
Enhanced PET Image Storage	1.2.840.10008.5.1.4.1.1.130	Y	N	N	N	N	Y	N	N	N	N
Basic Structured Display Storage	1.2.840.10008.5.1.4.1.1.131	Y	N	N	N	N	Y	N	N	N	N
CT Performed Procedure Protocol Storage	1.2.840.10008.5.1.4.1.1.200.2	Y	N	N	N	N	Y	N	N	N	N
XA Performed Procedure Protocol Storage	1.2.840.10008.5.1.4.1.1.200.8	Y	N	N	N	N	Y	N	N	N	N
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	Y	N	N	N	N	Y	N	Y	N	N
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	Y	N	N	N	N	Y	N	Y	N	N
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	Y	N	N	N	N	Y	N	N	N	N
RT Beams Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.4	Y	N	N	N	N	Y	N	N	N	N
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	Y	N	N	N	N	Y	N	N	N	N
RT Brachy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	Y	N	N	N	N	Y	N	N	N	N
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	Y	N	N	N	N	Y	N	N	N	N
RT Ion Plan Storage	1.2.840.10008.5.1.4.1.1.481.8	Y	N	N	N	N	Y	N	N	N	N
RT Ion Beams Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.9	Y	N	N	N	N	Y	N	N	N	N
RT Physician Intent Storage	1.2.840.10008.5.1.4.1.1.481.10	Y	N	N	N	N	Y	N	N	N	N
RT Segment Annotation Storage	1.2.840.10008.5.1.4.1.1.481.11	Y	N	N	N	N	Y	N	N	N	N
RT Radiation Set Storage	1.2.840.10008.5.1.4.1.1.481.12	Y	N	N	N	N	Y	N	N	N	N
C-Arm Photon-Electron Radiation Storage	1.2.840.10008.5.1.4.1.1.481.13	Y	N	N	N	N	Y	N	N	N	N
Tomotherapeutic Radiation Storage	1.2.840.10008.5.1.4.1.1.481.14	Y	N	N	N	N	Y	N	N	N	N
Robotic-Arm Radiation Storage	1.2.840.10008.5.1.4.1.1.481.15	Y	N	N	N	N	Y	N	N	N	N
RT Radiation Record Set Storage	1.2.840.10008.5.1.4.1.1.481.16	Y	N	N	N	N	Y	N	N	N	N
RT Radiation Salvage Record Storage	1.2.840.10008.5.1.4.1.1.481.17	Y	N	N	N	N	Y	N	N	N	N
Tomotherapeutic Radiation Record Storage	1.2.840.10008.5.1.4.1.1.481.18	Y	N	N	N	N	Y	N	N	N	N

Table 1: Supported Storage SOP Classes...

... Table 1: Supported Storage SOP Classes

SOP Class	SOP Class UID	DIMSE services		DICOM web services		Media services		Function			
		SCU	SCP	UA	OS	FSC	FSR	Create	Display	Process	Archive
C-Arm Photon-Electron Radiation Record Storage	1.2.840.10008.5.1.4.1.1.481.19	Y	N	N	N	N	Y	N	N	N	N
Robotic Radiation Record Storage	1.2.840.10008.5.1.4.1.1.481.20	Y	N	N	N	N	Y	N	N	N	N
RT Radiation Set Delivery Instruction Storage	1.2.840.10008.5.1.4.1.1.481.21	Y	N	N	N	N	Y	N	N	N	N
RT Treatment Preparation Storage	1.2.840.10008.5.1.4.1.1.481.22	Y	N	N	N	N	Y	N	N	N	N
Enhanced RT Image Storage	1.2.840.10008.5.1.4.1.1.481.23	Y	N	N	N	N	Y	N	N	N	N
Enhanced Continuous RT Image Storage	1.2.840.10008.5.1.4.1.1.481.24	Y	N	N	N	N	Y	N	N	N	N
RT Patient Position Acquisition Instruction Storage	1.2.840.10008.5.1.4.1.1.481.25	Y	N	N	N	N	Y	N	N	N	N
DICOS CT Image Storage	1.2.840.10008.5.1.4.1.1.501.1	Y	N	N	N	N	Y	N	N	N	N
DICOS Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.501.2.1	Y	N	N	N	N	Y	N	Y	N	N
DICOS Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.501.2.2	Y	N	N	N	N	Y	N	N	N	N
DICOS Threat Detection Report Storage	1.2.840.10008.5.1.4.1.1.501.3	Y	N	N	N	N	Y	N	N	N	N
DICOS 2D AIT Storage	1.2.840.10008.5.1.4.1.1.501.4	Y	N	N	N	N	Y	N	N	N	N
DICOS 3D AIT Storage	1.2.840.10008.5.1.4.1.1.501.5	Y	N	N	N	N	Y	N	N	N	N
DICOS Quadrupole Resonance Storage	1.2.840.10008.5.1.4.1.1.501.6	Y	N	N	N	N	Y	N	N	N	N
Eddy Current Image Storage	1.2.840.10008.5.1.4.1.1.601.1	Y	N	N	N	N	Y	N	N	N	N
Eddy Current Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.601.2	Y	N	N	N	N	Y	N	N	N	N
RT Beams Delivery Instruction Storage - Trial (Retired)	1.2.840.10008.5.1.4.34.1	Y	N	N	N	N	Y	N	N	N	N
RT Beams Delivery Instruction Storage	1.2.840.10008.5.1.4.34.7	Y	N	N	N	N	Y	N	N	N	N
RT Brachy Application Setup Delivery Instruction Storage	1.2.840.10008.5.1.4.34.10	Y	N	N	N	N	Y	N	N	N	N

Table 2: Supported Storage Transfer Syntaxes

Transfer Syntax set	Transfer Syntax name	Transfer Syntax UID
Lossless Compressed Transfer Syntax Set (LL)	Deflated Explicit VR Little Endian	1.2.840.10008.1.2.1.99
	JPEG Lossless, Non-Hierarchical (Process 14)	1.2.840.10008.1.2.4.57
	JPEG Lossless, Non-Hierarchical, First-Order Prediction (Process 14 [Selection Value 1]): Default Transfer Syntax for Lossless JPEG Image Compression	1.2.840.10008.1.2.4.70
	JPEG-LS Lossless Image Compression	1.2.840.10008.1.2.4.80
	JPEG 2000 Image Compression (Lossless Only)	1.2.840.10008.1.2.4.90
	JPEG 2000 Part 2 Multi-component Image Compression (Lossless Only)	1.2.840.10008.1.2.4.92
	RLE Lossless	1.2.840.10008.1.2.5
Lossy Compressed Transfer Syntax Set (L)	JPEG Baseline (Process 1): Default Transfer Syntax for Lossy JPEG 8-bit Image Compression	1.2.840.10008.1.2.4.50
	JPEG Extended (Processes 2 & 4): Default Transfer Syntax for Lossy JPEG 12-bit Image Compression (Process 4 only)	1.2.840.10008.1.2.4.51
	JPEG-LS Lossy (Near-Lossless) Image Compression	1.2.840.10008.1.2.4.81
	JPEG 2000 Image Compression	1.2.840.10008.1.2.4.91
	JPEG 2000 Part 2 Multi-component Image Compression	1.2.840.10008.1.2.4.93
Non-Image Transfer Syntax Set (NI)	Implicit VR Little Endian: Default Transfer Syntax for DICOM	1.2.840.10008.1.2
	Explicit VR Little Endian	1.2.840.10008.1.2.1
	Deflated Explicit VR Little Endian	1.2.840.10008.1.2.1.99
	Explicit VR Big Endian	1.2.840.10008.1.2.2
Uncompressed Transfer Syntax Set (U)	Implicit VR Little Endian: Default Transfer Syntax for DICOM	1.2.840.10008.1.2
	Explicit VR Little Endian	1.2.840.10008.1.2.1
	Explicit VR Big Endian	1.2.840.10008.1.2.2
Video Transfer Syntax Set (V)	MPEG2 Main Profile / Main Level	1.2.840.10008.1.2.4.100
	Fragmentable MPEG2 Main Profile / Main Level	1.2.840.10008.1.2.4.100.1
	MPEG2 Main Profile / High Level	1.2.840.10008.1.2.4.101
	Fragmentable MPEG2 Main Profile / High Level	1.2.840.10008.1.2.4.101.1
	MPEG-4 AVC/H.264 High Profile / Level 4.1	1.2.840.10008.1.2.4.102
	Fragmentable MPEG-4 AVC/H.264 High Profile / Level 4.1	1.2.840.10008.1.2.4.102.1
	MPEG-4 AVC/H.264 BD-compatible High Profile / Level 4.1	1.2.840.10008.1.2.4.103
	Fragmentable MPEG-4 AVC/H.264 BD-compatible High Profile / Level 4.1	1.2.840.10008.1.2.4.103.1
	MPEG-4 AVC/H.264 High Profile / Level 4.2 for 2D Image Compression	1.2.840.10008.1.2.4.104
	Fragmentable MPEG-4 AVC/H.264 High Profile / Level 4.2 For 2D Video	1.2.840.10008.1.2.4.104.1
	MPEG-4 AVC/H.264 High Profile / Level 4.2 for 3D Image Compression	1.2.840.10008.1.2.4.105

Table 2: Supported Storage Transfer Syntaxes...

... Table 2: Supported Storage Transfer Syntaxes

Transfer Syntax set	Transfer Syntax name	Transfer Syntax UID
	Fragmentable MPEG-4 AVC/H.264 High Profile / Level 4.2 For 3D Video	1.2.840.10008.1.2.4.105.1
	MPEG-4 AVC/H.264 Stereo High Profile / Level 4.2	1.2.840.10008.1.2.4.106
	Fragmentable MPEG-4 AVC/H.264 Stereo High Profile / Level 4.2	1.2.840.10008.1.2.4.106.1
	HEVC/H.265 Main Profile / Level 5.1	1.2.840.10008.1.2.4.107
	HEVC/H.265 Main 10 Profile / Level 5.1	1.2.840.10008.1.2.4.108

DIMSE services

Verification

Table 3: Supported Verification SOP Classes

SOP Class	SOP Class UID	Transfer Syntax	Transfer Syntax UID	SCU	SCP
Verification	1.2.840.10008.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	Y	N
		Explicit VR Little Endian	1.2.840.10008.1.2.1	Y	N
		Explicit VR Big Endian	1.2.840.10008.1.2.2	Y	N

Workflow management

Table 4: Supported Storage Commitment SOP Classes

SOP Class	SOP Class UID	Transfer Syntax	Transfer Syntax UID	SCU	SCP
Storage Commitment Push Model	1.2.840.10008.1.20.1	Implicit VR Little Endian	1.2.840.10008.1.2	Y	N
		Explicit VR Little Endian	1.2.840.10008.1.2.1	Y	N
		Explicit VR Big Endian	1.2.840.10008.1.2.2	Y	N

Table 5: Supported Modality Performed Procedure Step SOP Classes

SOP Class	SOP Class UID	Transfer Syntax	Transfer Syntax UID	SCU	SCP
Modality Performed Procedure Step	1.2.840.10008.3.1.2.3.3	Implicit VR Little Endian	1.2.840.10008.1.2	Y	N
		Explicit VR Little Endian	1.2.840.10008.1.2.1	Y	N
		Explicit VR Big Endian	1.2.840.10008.1.2.2	Y	N

Query/Retrieve

Table 6: Supported Query/Retrieve SOP Classes

SOP Class	SOP Class UID	Transfer Syntax	Transfer Syntax UID	SCU	SCP
Patient Root Query/Retrieve Information Model – FIND	1.2.840.10008.5.1.4.1.2.1.1	Implicit VR Little Endian	1.2.840.10008.1.2	Y	N
		Explicit VR Little Endian	1.2.840.10008.1.2.1	Y	N
		Explicit VR Big Endian	1.2.840.10008.1.2.2	Y	N
Study Root Query/Retrieve Information Model – FIND	1.2.840.10008.5.1.4.1.2.2.1	Implicit VR Little Endian	1.2.840.10008.1.2	Y	N
		Explicit VR Little Endian	1.2.840.10008.1.2.1	Y	N
		Explicit VR Big Endian	1.2.840.10008.1.2.2	Y	N
Study Root Query/Retrieve Information Model – MOVE	1.2.840.10008.5.1.4.1.2.2.2	Implicit VR Little Endian	1.2.840.10008.1.2	Y	N
		Explicit VR Little Endian	1.2.840.10008.1.2.1	Y	N
		Explicit VR Big Endian	1.2.840.10008.1.2.2	Y	N
Modality Worklist Information Model – FIND	1.2.840.10008.5.1.4.31	Implicit VR Little Endian	1.2.840.10008.1.2	Y	N
		Explicit VR Little Endian	1.2.840.10008.1.2.1	Y	N
		Explicit VR Big Endian	1.2.840.10008.1.2.2	Y	N

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1 Introduction

This document is a DICOM 3.0 Conformance Statement that describes the DICOM capabilities of *syngo.share import*.

syngo.share import is able to load DICOM images, series and studies from specified directories or CD media and import them into *syngo.share* core and third-party archives.

1.1 Remarks

This Conformance Statement is intended to aid in the validation of the integration of the *syngo.share import* within a DICOM environment. This Statement is not meant to replace the validation with other DICOM equipment to ensure the intended, proper exchange of information. Thus, it is still important to ensure the proper interoperability of the intended DICOM integration.

The user must be aware of the following issues:

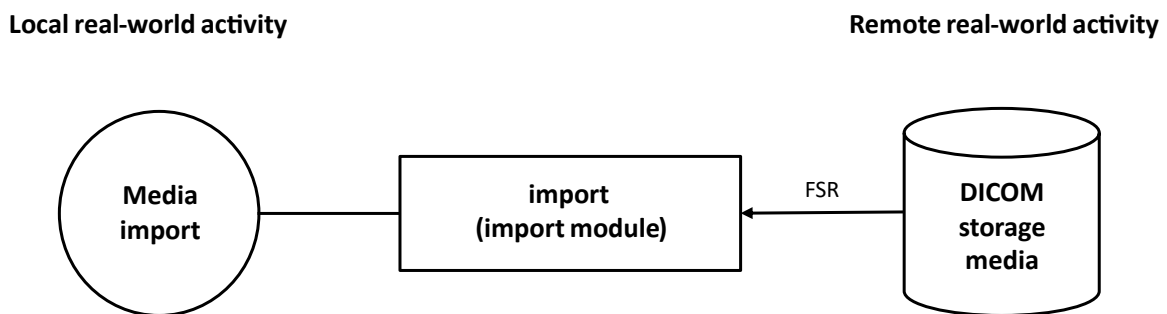
- The comparison of different Conformance Statements should be the first step towards an assessment of the interoperability within a DICOM environment.
- Testing procedures should be defined to validate the desired level of connectivity.

2 Implementation model

2.1 Application data flow diagram

syngo.share import (i.e. the FSR) is able to read DICOM files from portable media such as CDs, from network directories or from the local file system. Loaded DICOM file sets can be imported directly into *syngo.share core*. Within the context of this Conformance Statement, the importing functionality of *syngo.share import* is referred to as the *syngo.share import FSR AE*.

Figure 1: *syngo.share import* data flow diagram



2.2 Functional definition of AEs

The *syngo.share import FSR AE* is able to read user-selected DICOM files like DICOMDIRs or image objects which are compliant to DICOM PS3.10. These files can be located either on the local file system or on DICOM PS3.12-compliant media.

2.3 Sequencing of real-world activities

- The user can request the services of the *syngo.share import AE* at any time through the user interface.

3 Application Entity specifications

The *syngo.share* import FSR solely provides functionalities for handling DICOM media. The DICOM Storage SOP Classes listed in Table 1 are supported for storage.

3.1 Supported SOP Classes and Transfer Syntaxes

The supported DICOM SOP Classes are described in Table 1. Table 2 lists the supported C-STORE Transfer Syntaxes.

3.2 Association establishment policies

3.2.1 General

The *syngo.share* import AE supports TCP/IP. When a user requests a C-STORE operation, it attempts to establish an association with a remote AE. The host, port and remote AE title are defined within the client configuration.

3.2.2 Number of associations

The *syngo.share* import AE establishes one associations per storage task.

3.2.3 Asynchronous nature

The *syngo.share* import AE only allows a single outstanding operation on each association, meaning that it does not perform asynchronous negotiation.

3.2.4 Implementation identifying information

- **Implementation Class UID**
1.2.276.0.7230010.3.0.3.6.1
- **Implementation Version Name**
OFFIS_DCMTK_361

3.2.5 Association initiation policy by real-world activity

The *syngo.share* import AE initiates an association with a remote AE for C-STORE requests. The proposed Transfer Syntaxes for association establishment for C-STORE are defined in Table 2.

4 DICOM media AE specification

This chapter describes the DICOM media functionalities of the *syngo.share* import AE.

4.1 Implementation model

4.1.1 Application data flow diagram

See Section 2.1 for the data flow diagram.

4.1.2 Functional definitions of AEs

The *syngo.share* import AE implements standard DICOM-conformant Service Classes for the reading of DICOM file sets (according to DICOM PS3.10). At least, General Purpose CD-R Interchange Profiles are supported.

4.1.3 Sequencing of real-world activities

The DICOM media functionalities of the *syngo.share* import AE can be used at any time through their user interfaces.

4.1.4 File meta information

- **Implementation Class UID**
1.2.276.0.7230010.3.0.3.6.1
- **Implementation Version Name**
OFFIS_DCMTK_361

4.2 Application Entity specification

See Table 1 for supported SOP Classes for the import of media.

Table 7: *syngo.share* import AE-related application profiles, real-world activity roles, and roles for interchanging

Supported application profiles	Real-world activity	Role	SC option
<i>syngo.share</i> import FSR	Read DICOM file set	FSR	Interchange

4.2.1 Real-world activities

4.2.1.1 Import Media

The user can choose whether a complete file set or just parts of it are read for import.

4.2.1.2 Reading DICOMDIR keys

All mandatory DICOMDIR keys are required in order to correctly structure the images within the file sets.

4.3 Augmented and private application profiles

Not used.

5 Configuration

`syngo.share import` provides user interfaces in order to facilitate configuration.

6 Support of extended character sets

6.1 Supported character sets

Table 8 contains the character sets which are supported with and without code extension techniques.

If the given specific character set does not correspond to the characters in an IOD or the specific character set is invalid, the DICOM dataset is not processed. In these cases, a configuration can be used to correct the character set. Due to practical reasons, the specific character set is used instead of the default character repertoire to process tags with VR CS.

Table 8: Supported character sets

MIME name	Without code extensions	With code extensions
US-ASCII		ISO 2022 IR 6
ISO-8859-1	ISO_IR 100	ISO 2022 IR 100
ISO-8859-2	ISO_IR 101	ISO 2022 IR 101
ISO-8859-3	ISO_IR 109	ISO 2022 IR 109
ISO-8859-4	ISO_IR 110	ISO 2022 IR 110
ISO-8859-5	ISO_IR 144	ISO 2022 IR 144
ISO-8859-6	ISO_IR 127	ISO 2022 IR 127
ISO-8859-7	ISO_IR 126	ISO 2022 IR 126
ISO-8859-8	ISO_IR 138	ISO 2022 IR 138
ISO-8859-9	ISO_IR 148	ISO 2022 IR 148
JIS_X0201	ISO_IR 13	ISO 2022 IR 13
TIS-620	ISO_IR 166	ISO 2022 IR 166
JIS_X0208-1990	-	ISO 2022 IR 87
JIS_X0212-1990	-	ISO 2022 IR 159
KS_X_1001-1997	-	ISO 2022 IR 149
GB2312	-	ISO 2022 IR 58
UTF-8	ISO_IR 192	-
GB18030	GB18030	-
GBK	GBK	-

6.2 Usage of Specific Character Set in C-FIND and C-MOVE requests

syngo.share import AE as C-FIND and C-MOVE SCU uses Specific Character Set (0008,0005) with a value of ISO_IR 192 for requests.

A DICOM element list for Query/Retrieve Service Classes

The following table lists the DICOM keys used for matching or query on the according level in C-FIND requests.

A.1 Supported C-FIND element requests on the patient level

Table 9: Supported C-FIND elements on the patient level

Keyword	Tag	Used for matching
PatientName	(0010,0010)	Y
PatientID	(0010,0020)	Y
IssuerOfPatientIDQualifiersSequence	(0010,0024)	Y
PatientBirthDate	(0010,0030)	Y
PatientBirthTime	(0010,0032)	Y
PatientSex	(0010,0040)	Y
OtherPatientIDs	(0010,1000)	Y
PatientBirthName	(0010,1005)	Y

A.2 Supported C-FIND element requests on the study level

In case of a Study Root Query/Retrieve where no patient level exists, all mentioned patient level keys are supported on the study level.

Table 10: Supported C-FIND elements on the study level

Keyword	Tag	Used for matching
StudyDate	(0008,0020)	Y
StudyTime	(0008,0030)	Y
AccessionNumber	(0008,0050)	Y
ModalitiesInStudy	(0008,0061)	Y
StudyDescription	(0008,1030)	Y
StudyInstanceUID	(0020,000D)	Y
NumberOfStudyRelatedSeries	(0020,1206)	N
NumberOfStudyRelatedInstances	(0020,1208)	N

A.3 Supported C-FIND element requests on the series level

Table 11: Supported C-FIND elements on the series level

Keyword	Tag	Used for matching
SeriesDate	(0008,0021)	N
SeriesTime	(0008,0031)	N
Modality	(0008,0060)	N
SeriesDescription	(0008,103E)	N
SeriesInstanceUID	(0020,000E)	Y
NumberOfSeriesRelatedInstances	(0020,1209)	N

B List of elements for modality worklist C-FIND requests

Table 12: Supported C-FIND modality worklist keywords

Key	Tag	Used for matching
AccessionNumber	(0008,0050)	N
IssuerOfAccessionNumberSequence/ LocalNameSpaceEntityID	(0008,0051)/ (0040,0031)	N
IssuerOfAccessionNumberSequence/ UniversalEntityID	(0008,0051)/ (0040,0032)	N
IssuerOfAccessionNumberSequence/ UniversalEntityIDType	(0008,0051)/ (0040,0033)	N
ReferringPhysicianName	(0008,0090)	N
ReferencedStudySequence/ ReferencedSOPClassUID	(0008,1110)/ (0008,1150)	N
ReferencedStudySequence/ ReferencedSOPInstanceUID	(0008,1110)/ (0008,1155)	N
PatientName	(0010,0010)	N
PatientID	(0010,0020)	N
IssuerOfPatientID	(0010,0021)	N
IssuerOfPatientIDQualifiersSequence/ UniversalEntityID	(0010,0024)/ (0040,0032)	N
IssuerOfPatientIDQualifiersSequence/ UniversalEntityIDType	(0010,0024)/ (0040,0033)	N
PatientBirthDate	(0010,0030)	N
PatientBirthTime	(0010,0032)	N
PatientSex	(0010,0040)	N
OtherPatientIDSequence/ PatientID	(0010,1002)/ (0010,0020)	N
OtherPatientIDSequence/ IssuerOfPatientID	(0010,1002)/ (0010,0021)	N
OtherPatientIDSequence/ TypeOfPatientID	(0010,1002)/ (0010,0022)	N
OtherPatientIDSequence/ IssuerOfPatientIDQualifiersSequence/ UniversalEntityID	(0010,1002)/ (0010,0024)/ (0040,0032)	N
OtherPatientIDSequence/ IssuerOfPatientIDQualifiersSequence/ UniversalEntityIDType	(0010,1002)/ (0010,0024)/ (0040,0033)	N
PatientBirthName	(0010,1005)	N
PatientMotherBirthName	(0010,1060)	N
StudyInstanceUID	(0020,000D)	N
RequestedProcedureDescription	(0032,1060)	N
AdmissionID	(0038,0010)	N
IssuerOfAdmissionIDSequence/ LocalNameSpaceEntityID	(0038,0014)/ (0040,0031)	N
IssuerOfAdmissionIDSequence/ UniversalEntityID	(0038,0014)/ (0040,0032)	N
IssuerOfAdmissionIDSequence/ UniversalEntityIDType	(0038,0014)/ (0040,0033)	N
ScheduledProcedureStepSequence/ ScheduledStationAETitle	(0040,0100)/ (0040,0001)	Y

Table 12: Supported C-FIND modality worklist keywords...

... Table 12: Supported C-FIND modality worklist keywords

Key	Tag	Used for matching
ScheduledProcedureStepSequence/ ScheduledProcedureStepStartDate	(0040,0100)/ (0040,0002)	Y
ScheduledProcedureStepSequence/ ScheduledProcedureStepStartTime	(0040,0100)/ (0040,0003)	Y
ScheduledProcedureStepSequence/ ScheduledProcedureStepDescription	(0040,0100)/ (0040,0007)	N
ScheduledProcedureStepSequence/ ScheduledProcedureStepID	(0040,0100)/ (0040,0009)	N
ScheduledProcedureStepSequence/ ScheduledProtocolCodeSequence/ CodeValue	(0040,0100)/ (0040,0008)/ (0008,0100)	N
ScheduledProcedureStepSequence/ ScheduledProtocolCodeSequence/ CodeMeaning	(0040,0100)/ (0040,0008)/ (0008,0104)	N
ScheduledProcedureStepSequence/ Modality	(0040,0100)/ (0008,0060)	N
RequestedProcedureID	(0040,1001)	N

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