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DICOM Conformance Statement of Orthanc

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Echo SCP Conformance

Orthanc supports the following SOP Classes as an SCP for C-Echo:

VerificationSOPClass	1.2.840.10008.1.1
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Store SCP Conformance

Orthanc supports the following SOP Classes as an SCP for C-Store:

AmbulatoryECGWaveformStorage		
1.2.840.10008.5.1.4.1.1.9.1.3		
ArterialPulseWaveformStorage		
1.2.840.10008.5.1.4.1.1.9.5.1		
AutorefractionMeasurementsStorage		
1.2.840.10008.5.1.4.1.1.78.2		
BasicStructuredDisplayStorage		
1.2.840.10008.5.1.4.1.1.131		
BasicTextSRStorage		
1.2.840.10008.5.1.4.1.1.88.11		
BasicVoiceAudioWaveformStorage		
1.2.840.10008.5.1.4.1.1.9.4.1		
BlendingSoftcopyPresentationStateStorage		
1.2.840.10008.5.1.4.1.1.11.4		
BreastTomosynthesisImageStorage		
1.2.840.10008.5.1.4.1.1.13.1.3		
CardiacElectrophysiologyWaveformStorage		
1.2.840.10008.5.1.4.1.1.9.3.1		
ChestCADSRStorage		
1.2.840.10008.5.1.4.1.1.88.65		
ColonCADSRStorage		
1.2.840.10008.5.1.4.1.1.88.69		
ColorSoftcopyPresentationStateStorage		
1.2.840.10008.5.1.4.1.1.11.2		
ComprehensiveSRStorage		
1.2.840.10008.5.1.4.1.1.88.33		
ComputedRadiographyImageStorage		1.2.840.10008.5.1.4.1.1.1
CTImageStorage		1.2.840.10008.5.1.4.1.1.2
DeformableSpatialRegistrationStorage		
1.2.840.10008.5.1.4.1.1.66.3		
DigitalIntraOralXRayImageStorageForPresentation		
1.2.840.10008.5.1.4.1.1.1.3		
DigitalIntraOralXRayImageStorageForProcessing		
1.2.840.10008.5.1.4.1.1.1.3.1		
DigitalMammographyXRayImageStorageForPresentation		
1.2.840.10008.5.1.4.1.1.1.2		
DigitalMammographyXRayImageStorageForProcessing		
1.2.840.10008.5.1.4.1.1.1.2.1		
DigitalXRayImageStorageForPresentation		
1.2.840.10008.5.1.4.1.1.1.1		
DigitalXRayImageStorageForProcessing		
1.2.840.10008.5.1.4.1.1.1.1.1		

EncapsulatedCDASStorage		
1.2.840.10008.5.1.4.1.1.104.2		
EncapsulatedPDFStorage		
1.2.840.10008.5.1.4.1.1.104.1		
EnhancedCTImageStorage		
1.2.840.10008.5.1.4.1.1.2.1		
EnhancedMRColorImageStorage		
1.2.840.10008.5.1.4.1.1.4.3		
EnhancedMRImageStorage		
1.2.840.10008.5.1.4.1.1.4.1		
EnhancedPETImageStorage		
1.2.840.10008.5.1.4.1.1.130		
EnhancedSRStorage		
1.2.840.10008.5.1.4.1.1.88.22		
EnhancedUSVolumeStorage		
1.2.840.10008.5.1.4.1.1.6.2		
EnhancedXAImageStorage		
1.2.840.10008.5.1.4.1.1.12.1.1		
EnhancedXRFImageStorage		
1.2.840.10008.5.1.4.1.1.12.2.1		
GeneralAudioWaveformStorage		
1.2.840.10008.5.1.4.1.1.9.4.2		
GeneralECGWaveformStorage		
1.2.840.10008.5.1.4.1.1.9.1.2		
GenericImplantTemplateStorage		1.2.840.10008.5.1.4.43.1
GrayscaleSoftcopyPresentationStateStorage		
1.2.840.10008.5.1.4.1.1.11.1		
HemodynamicWaveformStorage		
1.2.840.10008.5.1.4.1.1.9.2.1		
ImplantAssemblyTemplateStorage		1.2.840.10008.5.1.4.44.1
ImplantationPlanSRDocumentStorage		
1.2.840.10008.5.1.4.1.1.88.70		
ImplantTemplateGroupStorage		1.2.840.10008.5.1.4.45.1
IntraocularLensCalculationsStorage		
1.2.840.10008.5.1.4.1.1.78.8		
KeratometryMeasurementsStorage		
1.2.840.10008.5.1.4.1.1.78.3		
KeyObjectSelectionDocumentStorage		
1.2.840.10008.5.1.4.1.1.88.59		
LensometryMeasurementsStorage		
1.2.840.10008.5.1.4.1.1.78.1		
MacularGridThicknessAndVolumeReportStorage		
1.2.840.10008.5.1.4.1.1.79.1		
MammographyCADSRStorage		
1.2.840.10008.5.1.4.1.1.88.50		
MRImageStorage		1.2.840.10008.5.1.4.1.1.4
MRSpectroscopyStorage		
1.2.840.10008.5.1.4.1.1.4.2		
MultiframeGrayscaleByteSecondaryCaptureImageStorage		
1.2.840.10008.5.1.4.1.1.7.2		
MultiframeGrayscaleWordSecondaryCaptureImageStorage		
1.2.840.10008.5.1.4.1.1.7.3		
MultiframeSingleBitSecondaryCaptureImageStorage		
1.2.840.10008.5.1.4.1.1.7.1		
MultiframeTrueColorSecondaryCaptureImageStorage		
1.2.840.10008.5.1.4.1.1.7.4		
NuclearMedicineImageStorage		
1.2.840.10008.5.1.4.1.1.20		
OphthalmicAxialMeasurementsStorage		
1.2.840.10008.5.1.4.1.1.78.7		
OphthalmicPhotography16BitImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.5.2		

OphthalmicPhotography8BitImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.5.1		
OphthalmicTomographyImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.5.4		
OphthalmicVisualFieldStaticPerimetryMeasurementsStorage		
1.2.840.10008.5.1.4.1.1.80.1		
PositronEmissionTomographyImageStorage		
1.2.840.10008.5.1.4.1.1.128		
ProcedureLogStorage		
1.2.840.10008.5.1.4.1.1.88.40		
PseudoColorSoftcopyPresentationStateStorage		
1.2.840.10008.5.1.4.1.1.11.3		
RawDataStorage		
1.2.840.10008.5.1.4.1.1.66		
RealWorldValueMappingStorage		
1.2.840.10008.5.1.4.1.1.67		
RespiratoryWaveformStorage		
1.2.840.10008.5.1.4.1.1.9.6.1		
RTBeamsTreatmentRecordStorage		
1.2.840.10008.5.1.4.1.1.481.4		
RTBrachyTreatmentRecordStorage		
1.2.840.10008.5.1.4.1.1.481.6		
RTDoseStorage		
1.2.840.10008.5.1.4.1.1.481.2		
RTImageStorage		
1.2.840.10008.5.1.4.1.1.481.1		
RTIonBeamsTreatmentRecordStorage		
1.2.840.10008.5.1.4.1.1.481.9		
RTIonPlanStorage		
1.2.840.10008.5.1.4.1.1.481.8		
RTPlanStorage		
1.2.840.10008.5.1.4.1.1.481.5		
RTStructureSetStorage		
1.2.840.10008.5.1.4.1.1.481.3		
RTTreatmentSummaryRecordStorage		
1.2.840.10008.5.1.4.1.1.481.7		
SecondaryCaptureImageStorage		1.2.840.10008.5.1.4.1.1.7
SegmentationStorage		
1.2.840.10008.5.1.4.1.1.66.4		
SpatialFiducialsStorage		
1.2.840.10008.5.1.4.1.1.66.2		
SpatialRegistrationStorage		
1.2.840.10008.5.1.4.1.1.66.1		
SpectaclePrescriptionReportStorage		
1.2.840.10008.5.1.4.1.1.78.6		
StereometricRelationshipStorage		
1.2.840.10008.5.1.4.1.1.77.1.5.3		
SubjectiveRefractionMeasurementsStorage		
1.2.840.10008.5.1.4.1.1.78.4		
SurfaceSegmentationStorage		
1.2.840.10008.5.1.4.1.1.66.5		
TwelveLeadECGWaveformStorage		
1.2.840.10008.5.1.4.1.1.9.1.1		
UltrasoundImageStorage		
1.2.840.10008.5.1.4.1.1.6.1		
UltrasoundMultiframeImageStorage		
1.2.840.10008.5.1.4.1.1.3.1		
VideoEndoscopicImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.1.1		
VideoMicroscopicImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.2.1		
VideoPhotographicImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.4.1		

VisualAcuityMeasurementsStorage		
1.2.840.10008.5.1.4.1.1.78.5		
VLEndoscopicImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.1		
VLMicroscopicImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.2		
VLPhotographicImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.4		
VLSlideCoordinatesMicroscopicImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.3		
VLWholeSlideMicroscopyImageStorage		
1.2.840.10008.5.1.4.1.1.77.1.6		
XAXRFGrayscaleSoftcopyPresentationStateStorage		
1.2.840.10008.5.1.4.1.1.11.5		
XRay3DAngiographicImageStorage		
1.2.840.10008.5.1.4.1.1.13.1.1		
XRay3DCraniofacialImageStorage		
1.2.840.10008.5.1.4.1.1.13.1.2		
XRayAngiographicImageStorage		
1.2.840.10008.5.1.4.1.1.12.1		
XRayRadiationDoseSRStorage		
1.2.840.10008.5.1.4.1.1.88.67		
XRayRadiofluoroscopicImageStorage		
1.2.840.10008.5.1.4.1.1.12.2		
RETIRED_HardcopyColorImageStorage		1.2.840.10008.5.1.1.30
RETIRED_HardcopyGrayscaleImageStorage		1.2.840.10008.5.1.1.29
RETIRED_NuclearMedicineImageStorage		1.2.840.10008.5.1.4.1.1.5
RETIRED_StandaloneCurveStorage		1.2.840.10008.5.1.4.1.1.9
RETIRED_StandaloneModalityLUTStorage		
1.2.840.10008.5.1.4.1.1.10		
RETIRED_StandaloneOverlayStorage		1.2.840.10008.5.1.4.1.1.8
RETIRED_StandalonePETCurveStorage		
1.2.840.10008.5.1.4.1.1.129		
RETIRED_StandaloneVOILUTStorage		
1.2.840.10008.5.1.4.1.1.11		
RETIRED_StoredPrintStorage		1.2.840.10008.5.1.1.27
RETIRED_UltrasoundImageStorage		1.2.840.10008.5.1.4.1.1.6
RETIRED_UltrasoundMultiframeImageStorage		1.2.840.10008.5.1.4.1.1.3
RETIRED_VLImageStorage		
1.2.840.10008.5.1.4.1.1.77.1		
RETIRED_VLMultiFrameImageStorage		
1.2.840.10008.5.1.4.1.1.77.2		
RETIRED_XRayAngiographicBiPlaneImageStorage		
1.2.840.10008.5.1.4.1.1.12.3		
DRAFT_SRAudioStorage		
1.2.840.10008.5.1.4.1.1.88.2		
DRAFT_SRComprehensiveStorage		
1.2.840.10008.5.1.4.1.1.88.4		
DRAFT_SRDetailedStorage		
1.2.840.10008.5.1.4.1.1.88.3		
DRAFT_SRTTextStorage		
1.2.840.10008.5.1.4.1.1.88.1		
DRAFT_WaveformStorage		
1.2.840.10008.5.1.4.1.1.9.1		
DRAFT_RTBeamsDeliveryInstructionStorage		1.2.840.10008.5.1.4.34.1

Find SCP Conformance

Orthanc supports the following SOP Classes as an SCP for C-Find:

FINDPatientRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.1.1
FINDStudyRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.2.1
FINDModalityWorklistInformationModel	1.2.840.10008.5.1.4.31

Move SCP Conformance

Orthanc supports the following SOP Classes as an SCP for C-Move:

MOVEPatientRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.1.2
MOVEStudyRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.2.2

Get SCP Conformance

Orthanc supports the following SOP Classes as an SCP for C-Get:

GETPatientRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.1.3
GETStudyRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.2.3

Echo SCU Conformance

Orthanc supports the following SOP Classes as an SCU for C-Echo:

VerificationSOPClass	1.2.840.10008.1.1
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Store SCU Conformance

All the SOP Classes that are listed in the "Store SCP Conformance"
(see above) section are available as an SCU for C-Store.

Find SCU Conformance

Orthanc supports the following SOP Classes as an SCU for C-Find:

FINDPatientRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.1.1
FINDStudyRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.2.1

Move SCU Conformance

Orthanc supports the following SOP Classes as an SCU for C-Move:

MOVEPatientRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.1.2
MOVEStudyRootQueryRetrieveInformationModel	1.2.840.10008.5.1.4.1.2.2.2

Transfer Syntaxes

Orthanc will accept and negotiate presentation contexts for all of the abovementioned supported SOP Classes using any of the following transfer syntaxes:

LittleEndianImplicitTransferSyntax	
1.2.840.10008.1.2	
LittleEndianExplicitTransferSyntax	
1.2.840.10008.1.2.1	
BigEndianExplicitTransferSyntax	
1.2.840.10008.1.2.2	
DeflatedExplicitVRLittleEndianTransferSyntax	
1.2.840.10008.1.2.1.99	
JPEGProcess1TransferSyntax	
1.2.840.10008.1.2.4.50	
JPEGProcess2_4TransferSyntax	
1.2.840.10008.1.2.4.51	
JPEGProcess3_5TransferSyntax	
1.2.840.10008.1.2.4.52	
JPEGProcess6_8TransferSyntax	
1.2.840.10008.1.2.4.53	
JPEGProcess7_9TransferSyntax	
1.2.840.10008.1.2.4.54	
JPEGProcess10_12TransferSyntax	
1.2.840.10008.1.2.4.55	
JPEGProcess11_13TransferSyntax	
1.2.840.10008.1.2.4.56	
JPEGProcess14TransferSyntax	
1.2.840.10008.1.2.4.57	
JPEGProcess15TransferSyntax	
1.2.840.10008.1.2.4.58	
JPEGProcess16_18TransferSyntax	
1.2.840.10008.1.2.4.59	
JPEGProcess17_19TransferSyntax	
1.2.840.10008.1.2.4.60	
JPEGProcess20_22TransferSyntax	
1.2.840.10008.1.2.4.61	
JPEGProcess21_23TransferSyntax	
1.2.840.10008.1.2.4.62	
JPEGProcess24_26TransferSyntax	
1.2.840.10008.1.2.4.63	
JPEGProcess25_27TransferSyntax	
1.2.840.10008.1.2.4.64	
JPEGProcess28TransferSyntax	
1.2.840.10008.1.2.4.65	
JPEGProcess29TransferSyntax	
1.2.840.10008.1.2.4.66	
JPEGProcess14SV1TransferSyntax	
1.2.840.10008.1.2.4.70	
JPEGLSLosslessTransferSyntax	
1.2.840.10008.1.2.4.80	
JPEGLSLossyTransferSyntax	
1.2.840.10008.1.2.4.81	
JPEG2000LosslessOnlyTransferSyntax	
1.2.840.10008.1.2.4.90	
JPEG2000TransferSyntax	
1.2.840.10008.1.2.4.91	
JPEG2000Part2MulticomponentImageCompressionLosslessOnlyTransferSyntax	
1.2.840.10008.1.2.4.92	

JPEG2000Part2MulticomponentImageCompressionTransferSyntax	
1.2.840.10008.1.2.4.93	
JPIPReferencedTransferSyntax	
1.2.840.10008.1.2.4.94	
JPIPReferencedDeflateTransferSyntax	
1.2.840.10008.1.2.4.95	
MPEG2MainProfileAtMainLevelTransferSyntax	
1.2.840.10008.1.2.4.100	
MPEG2MainProfileAtHighLevelTransferSyntax	
1.2.840.10008.1.2.4.101	
RLELosslessTransferSyntax	
1.2.840.10008.1.2.5	

It is possible to disable a subset of these transfer syntaxes thanks to the "AcceptedTransferSyntaxes" and "*TransferSyntaxAccepted" options in the Orthanc configuration file.

When possible, Orthanc will prefer the LittleEndianExplicitTransferSyntax transfer syntax (1.2.840.10008.1.2.1).

Orthanc does not support extended negotiation.

----- Implementation notes -----

The information above about the SCP support is readily extracted from the function "Orthanc::Internals::AcceptAssociation()" from file "OrthancFramework/Sources/DicomNetworking/Internals/CommandDispatcher.cpp".

The information above about the SCU support is derived from the classes "Orthanc::DicomControlUserConnection" and "Orthanc::DicomStoreUserConnection" from file "OrthancFramework/Sources/DicomNetworking/DicomControlUserConnection.cpp" and "OrthancFramework/Sources/DicomNetworking/DicomStoreUserConnection.cpp".
