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Pukka-j Nexus DICOM Conformance Statement

Document Control

Item	Value
Copyright	Copyright © 2026 Pukka-j Ltd. All rights reserved.
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Revision History

Version	Date	Author	Description
1.0.0	23/06/2026	D. A. Wright	Nexus version 3.9.10 release update.

Version	Date	Author	Description
1.1.0	05/09/2026	D. A. Wright	Nexus version 3.10.0 release update. Records the transfer syntax selected on association, the storage presentation contexts a C-GET SCU must propose, retrieve status codes and sub-operation counts, even-length value encoding, DICOM Explorer compatibility mode, and the corrected Implementation Version Name.
1.2.0	05/09/2026	D. A. Wright	Nexus version 3.11.0 release update. Records the JPEG Lossless colour precision limit, implicit-to-explicit value length conversion, and deterministic paged query ordering on Microsoft SQL Server.

Disclaimer

This DICOM Conformance Statement describes the DICOM behaviour of Pukka-j Nexus for classic DICOM DIMSE services. It does not by itself guarantee interoperability with another DICOM implementation. Integrators must compare the relevant conformance statements, confirm configuration, and perform site-specific validation before clinical or operational use.

This document does not describe DICOMweb behaviour. QIDO-RS, WADO-RS, STOW-RS and DICOMweb proxy behaviour are outside the scope of this statement.

1. Introduction

1.1 Scope

This document describes the classic DICOM DIMSE behaviour of Pukka-j Nexus when configured with DICOM networking nodes. The listener application entity described in this document is the Pukka-j Nexus DICOM Streaming Service.

Pukka-j Nexus does not listen for DICOM network traffic until a configured network containing a DICOM input node is running. A configured DICOM input node defaults to port 104; deployments may configure a different port.

The default DICOM input AE Title shown in the user interface is MINT. The system is promiscuous by default unless stricter called or calling AE Title checks are configured.

A configured DICOM node may be backed by a DICOMweb archive instead of local storage. The DIMSE behaviour described in this statement still applies at the association. What a query returns, and whether a retrieve can be satisfied, then depend on that archive, and instances are passed through in the transfer syntax the archive holds rather than transcoded. The DICOMweb protocols themselves remain outside the scope of this document.

1.2 Definitions

Term	Definition
DICOM	Digital Imaging and Communications in Medicine.
DIMSE	DICOM Message Service Element, the classic DICOM network protocol family.

Term	Definition
AE	Application Entity.
SCP	Service Class Provider.
SCU	Service Class User.
SOP Class	DICOM Service-Object Pair Class.
Transfer Syntax	Encoding negotiated for DICOM data exchange.
Presentation Context	Association negotiation item combining an abstract syntax and transfer syntax list.
PDU	Protocol Data Unit.
TLS	Transport Layer Security.

1.3 Abbreviations

Abbreviation	Meaning
AE	Application Entity
AET	Application Entity Title
DIMSE	DICOM Message Service Element
DMWL	DICOM Modality Worklist
ILE	Implicit VR Little Endian
ELE	Explicit VR Little Endian
PDU	Protocol Data Unit
Q/R	Query/Retrieve
SCP	Service Class Provider
SCU	Service Class User
SOP	Service-Object Pair
TLS	Transport Layer Security
UID	Unique Identifier

2. Implementation Model

2.1 Application Data Flow

The application data flow is the set of paths below. A path that carries DIMSE services names them; the rest are internal to the deployment and carry no DICOM association.

From	To	Services on this path
Remote DICOM AE	Pukka-j Nexus DICOM Stream Input Node	C-ECHO, C-STORE, C-FIND, C-MOVE, C-GET
Pukka-j Nexus DICOM Stream Input Node	The configured Pukka-j Nexus network	Internal to the deployment
The configured Pukka-j Nexus network	Database, cache, or file storage	Internal to the deployment
The configured Pukka-j Nexus network	Pukka-j Nexus DICOM Output Node	Internal to the deployment
Pukka-j Nexus DICOM Output Node	Remote DICOM AE	C-STORE and configured SCU workflows
HL7 or order source	Order database	Not a DICOM service; an HL7 or order interface
Order database	Pukka-j Nexus DMWL SCP	Internal to the deployment
Modality Worklist SCU	Pukka-j Nexus DMWL SCP	C-FIND

The configured network determines which DICOM services are active. DICOM storage, query, retrieve, and worklist behaviour depend on the configured nodes and the backing storage or database used by the deployment.

2.2 Functional Definition of Application Entities

Application Entity	Purpose	Role	Services
Pukka-j Nexus DICOM Stream Input Node	Receives DIMSE associations from remote DICOM AEs and passes data into a configured Pukka-j Nexus network.	SCP	C-ECHO, C-STORE, Study Root C-FIND, Study Root C-MOVE, Study Root C-GET, Patient Root C-FIND where configured.
Pukka-j Nexus DICOM Output Node	Sends DICOM objects to configured remote AEs or to AEs selected by pipeline data.	SCU	C-STORE and configured outbound workflows.
Pukka-j Nexus DMWL SCP	Exposes an order-backed Modality Worklist endpoint.	SCP	Modality Worklist C-FIND.

2.3 Sequencing of Real-World Activities

Activity	Sequence
Verification	A remote AE opens an association to the configured listener AE and sends C-ECHO. Pukka-j Nexus returns success when the association and service are accepted.
Image storage	A remote AE sends C-STORE to the configured listener. Pukka-j Nexus stores and indexes the object according to the configured network and storage nodes.
Query	A remote AE sends C-FIND using a supported Query/Retrieve information model. Pukka-j Nexus queries the configured backend and returns matching identifiers.
Study retrieve using C-MOVE	A remote AE requests retrieve by Study Root C-MOVE. Pukka-j Nexus sends matching objects to the requested move destination where the destination is configured and reachable.
Study retrieve using C-GET	A remote AE requests retrieve by Study Root C-GET. Pukka-j Nexus returns matching objects on the same association using C-STORE sub-operations.
Outbound send	A configured output workflow initiates C-STORE to a remote AE using configured or pipeline-provided AE Titles.
Modality Worklist query	A modality or scheduler sends DMWL C-FIND. Pukka-j Nexus returns matching scheduled procedure information from the configured order-backed workflow.

3. Application Entity Specifications

3.1 Pukka-j Nexus DICOM Stream Input Node

3.1.1 SOP Classes

SOP Class Name	SOP Class UID	Role	Support	Notes
Verification	1.2.840.10008.1.1	SCP	Supported	Used for C-ECHO verification.
Study Root Query/Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.2.1	SCP	Supported	Study, series, and image level query paths are supported where backed by the configured archive.
Study Root Query/Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.2.2	SCP	Supported	Study-level retrieve is supported where the move destination is configured.
Study Root Query/Retrieve Information Model - GET	1.2.840.10008.5.1.4.1.2.2.3	SCP	Supported	Study, series, and image level retrieve paths are supported. Returned objects are sent using C-STORE sub-operations on the same association.

SOP Class Name	SOP Class UID	Role	Support	Notes
Patient Root Query/Retrieve Information Model - FIND	1.2.840.10008.5.1.4.1.2.1.1 SCP		Supported	Patient and patient-study level query paths are supported where backed by the configured archive.
Patient Root Query/Retrieve Information Model - MOVE	1.2.840.10008.5.1.4.1.2.1.2 SCP		Not claimed	Patient Root retrieve is not part of the current customer claim.
Patient Root Query/Retrieve Information Model - GET	1.2.840.10008.5.1.4.1.2.1.3 SCP		Not claimed	Patient Root retrieve is not part of the current customer claim.
Storage SOP Classes	See Appendix A	SCP	Supported when configured	Storage classes in the shipped storage catalogue are accepted, stored, and indexed where configured. Display, rendering, or semantic processing is not implied for every object family.

3.1.2 Association Establishment Policy

Item	Behaviour
Application Context Name	DICOM Application Context, 1.2.840.10008.3.1.1.1.
Listener activation	No DICOM listener is active until a configured network containing a DICOM input node is running.
Default listener port	104 for a configured DICOM input node, unless changed by deployment configuration.
Default AE Title	MINT in the user interface. File-reading and pipeline defaults may use PJ_SCP or PJ SCU depending on the workflow.
AE Title policy	Promiscuous by default. Strict called and calling AE Title checks are configurable.
Known remote AEs	Remote AE definitions are configurable and may be used for calling AE filtering and retrieve destinations.
Implementation Class UID	1.2.826.0.1.3680043.2.526.11.
Implementation Version Name	The service announces <application id><major><minor><subversion>, read from the build's version resource. Those fields identify the minor release series and do not carry the patch number, so every release in a series announces the same value. A Windows installation using the installer's default application id NEX announces NEX31100 for the 3.11 series. The application id is chosen at installation and can be changed by deployment configuration; the value built into the product is NEXUS, and DICOM Explorer compatibility mode uses DEX (section 15.1). The effective value should be confirmed against the deployed service.
Concurrent associations	Configurable; default input node concurrent association limit is 50.
Asynchronous operations	Not claimed.
Max PDU	A DICOM input node proposes and accepts a default maximum PDU length of 16384 bytes. Configurable per node; the effective deployment value should be confirmed in site configuration.
Transfer syntax selection	For each accepted presentation context the listener accepts the first transfer syntax in the requesting AE's proposed list that is enabled for that SOP Class, so the requesting AE's order of preference decides the encoding. Releases before 3.10.0 instead preferred Implicit VR Little Endian whenever it appeared anywhere in the proposed list.

Item	Behaviour
Release, abort, and peer close	Associations are released normally on successful completion and association is rejected or the operation fails without leaving the association in an undefined state on unsupported or rejected negotiations. A peer that closes the connection after a successful operation without sending a release request is treated as a normal close rather than an abort. Unknown C-MOVE destinations are reported as failure.

3.1.3 Association Acceptance Policy

Service	Behaviour
C-ECHO C-STORE	Accepted for Verification when the association is accepted. Accepted for configured storage SOP Classes and transfer syntaxes.
C-FIND	Accepted for Study Root and Patient Root models where the configured backend supports the requested query path.
C-MOVE	Accepted for Study Root retrieve where the move destination is configured.
C-GET	Accepted for Study Root retrieve. Returned instances are transferred as C-STORE sub-operations on the same association, so the requesting AE must also propose Storage SOP Class presentation contexts for the instances it expects to receive. A retrieve whose association accepted no usable storage context fails with a diagnostic naming the accepted syntaxes.
Modality Worklist C-FIND	Accepted by configured DMWL endpoints.

3.2 Pukka-j Nexus DICOM Output Node

Item	Behaviour
Purpose	Sends DICOM instances to configured remote AEs.
Role	SCU.
Services	C-STORE and configured outbound workflows.
AE Title handling	Output nodes can override called and calling AE Titles or use AE Titles provided by the pipeline. Pipeline nodes can update AE Title values before output.
Destination configuration	Remote host, port, called AE Title, calling AE Title, SOP Class handling, transfer syntax handling, and timeout settings are deployment-configurable.

3.3 Modality Worklist Application Entity

Item	Behaviour
Purpose	Provides a DMWL endpoint backed by configured order data.
Role	SCP.
Service	Modality Worklist Information Model - FIND.
Matching	Matching depends on configured order data and backend query configuration. Patient ID, Accession Number, and Requested Procedure ID are supported query keys in the validated order-backed path.
Return keys	Scheduled procedure and patient/order fields are returned according to configured mapping and stored order content.

4. Presentation Contexts

4.1 Pukka-j Nexus DICOM Stream Input Node Accepted Presentation Contexts

Abstract Syntax Name	Abstract Syntax UID	Role	Transfer Syntaxes	Default/configurable	Notes
Verification	1.2.840.10008.1.1	SCP	ILE, ELE	Configurable	Used for C-ECHO.
Storage SOP Classes	See Appendix A	SCP	ILE, ELE, configured compressed syntaxes	Configurable	Accepted where the SOP Class and transfer syntax are enabled.
Study Root FIND	1.2.840.10008.5.1.4.1.2.2.1	SCP	ILE, ELE	Configurable	Supports study, series, and image level query paths.
Study Root MOVE	1.2.840.10008.5.1.4.1.2.2.2	SCP	ILE, ELE	Configurable	Requires configured move destination.
Study Root GET	1.2.840.10008.5.1.4.1.2.2.3	SCP	ILE, ELE	Configurable	Uses same-association C-STORE sub-operations.
Patient Root FIND	1.2.840.10008.5.1.4.1.2.3.1	SCP	ILE, ELE	Configurable	Patient and patient-study query paths.

Where more than one proposed transfer syntax is enabled for a SOP Class, the listener accepts the first one in the order the requesting AE proposed them.

4.2 DICOM Output Node Proposed Presentation Contexts

Abstract Syntax Name	Abstract Syntax UID	Role	Transfer Syntaxes	Default/configurable	Notes
Storage SOP Classes	See Appendix A	SCU	ILE, ELE, configured compressed syntaxes	Configurable	Proposed according to the selected output node and remote AE configuration.
Study Root FIND	1.2.840.10008.5.1.4.1.2.2.1	SCU	ILE, ELE	Configurable	Used by configured query workflows.
Study Root MOVE	1.2.840.10008.5.1.4.1.2.2.2	SCU	ILE, ELE	Configurable	Used by configured retrieve workflows.
Modality Worklist FIND	1.2.840.10008.5.1.4.31	SCU	ILE, ELE	Configurable	Used where configured as a proxy for worklist query.

4.3 Modality Worklist FIND Presentation Context

Abstract Syntax Name	Abstract Syntax UID	Role	Transfer Syntaxes	Default/configurable	Notes
Modality Worklist Information Model - FIND	1.2.840.10008.5.1.4.31	SCP	ILE, ELE	Configurable	Requires an order-backed workflow.

4.4 Retrieve Storage Sub-Operation Behaviour

Retrieve service	Storage operation	Role	Transfer Syntaxes	Default/configurable	Notes
Study Root C-GET	C-STORE sub-operation on same association	SCP for GET, SCU for returned C-STORE	Negotiated storage transfer syntaxes	Configurable	Each returned instance is sent on a presentation context the association accepted for that instance's SOP Class and transfer syntax. Where no such context exists the retrieve fails with a diagnostic; the instance is not transcoded and is not sent on another context. Reports completed, failed, warning, and remaining sub-operation counts.
Study Root C-MOVE	C-STORE to move destination	SCP for MOVE, SCU for destination C-STORE	Negotiated storage transfer syntaxes	Configurable	Requires the move destination AE to be configured and reachable.

5. Verification Service Class

Pukka-j Nexus supports the Verification SOP Class as SCP for the DICOM Stream Input Node. C-ECHO returns success when the association and Verification presentation context are accepted.

SOP Class Name	SOP Class UID	Role	Status
Verification	1.2.840.10008.1.1	SCP	Supported

6. Storage Service Classes

Pukka-j Nexus supports C-STORE SCP and C-STORE SCU workflows when configured. Storage SOP Classes in the shipped storage catalogue are accepted, stored, and indexed where configured. This statement does not imply display, rendering, measurement, or semantic workflow support for every stored object type.

6.1 Storage Behaviour

Topic	Behaviour
Storage SCP	Receives and stores configured SOP Classes through the DICOM Stream Input Node.
Storage SCU	Sends configured SOP Classes through DICOM Output Node workflows.
Duplicate handling	Configurable; default behaviour is overwrite for applicable file-writing paths, with node-specific behaviour depending on the configured network.
Pixel data	Stored and transmitted according to configured storage and transfer syntax handling.
Multi-frame objects	Accepted where the SOP Class and transfer syntax are configured. Rendering or specialised processing is not implied.
Non-image objects	Accepted, stored, and indexed where present in the shipped catalogue and configured. Specialised semantic handling is not implied.

Topic	Behaviour
Compressed objects	Supported when the relevant transfer syntax is enabled. Decompression and transcoding behaviour is configuration-dependent.
Value lengths	Element values are written with an even byte length as DICOM PS3.5 requires, padded with a space for the text value representations and with a null byte for UI and the binary representations. This applies to file output, C-STORE, query identifiers and results, and DICOMDIR records.
Elements after pixel data	Elements that follow pixel data are written out on file output and on outbound C-STORE and C-GET.
Value length conversion	When an element is converted from implicit VR to a short-form explicit VR header, the value length is re-encoded for the destination byte order. A length that the short form cannot represent, that is one outside 0 to 65535, is rejected rather than truncated into a header a reader would mis-frame. Extended-VR and explicit-to-implicit conversion are unchanged.
Encapsulated pixel data	Compressed output writes a single encapsulation delimiter, and streamed pixel data, encapsulated items, and the final frame are written with even lengths.

6.2 Storage Status Codes

Condition	Expected status behaviour
Successful store	Success.
Unsupported SOP Class or transfer syntax	Association or presentation context rejection, or C-STORE failure depending on negotiation outcome.
Storage failure	Failure status where the error is detected during DIMSE operation.

7. Query/Retrieve Service Classes

7.1 Supported Query/Retrieve Models

Information Model	SOP Class UID	C-FIND	C-MOVE	C-GET	Notes
Patient Root	FIND 1.2.840.10008.5.1.4.1.2.1.1; MOVE 1.2.840.10008.5.1.4.1.2.1.2; GET 1.2.840.10008.5.1.4.1.2.1.3	Supported	Not claimed	Not claimed	Patient and patient-study level FIND paths are supported.
Study Root	FIND 1.2.840.10008.5.1.4.1.2.2.1; MOVE 1.2.840.10008.5.1.4.1.2.2.2; GET 1.2.840.10008.5.1.4.1.2.2.3	Supported	Supported	Supported	Study, series, and image level query/retrieve paths are supported where backed by configured storage.
Patient/Study Only	FIND 1.2.840.10008.5.1.4.1.2.3.1; MOVE 1.2.840.10008.5.1.4.1.2.3.2; GET 1.2.840.10008.5.1.4.1.2.3.3	Not claimed	Not claimed	Not claimed	

7.2 Query Levels

Model	Query levels
Patient Root C-FIND	PATIENT and STUDY query paths are supported.
Study Root C-FIND	STUDY, SERIES, and IMAGE query paths are supported.
Study Root C-MOVE	Study-level retrieve is supported; narrower retrieve behaviour depends on configured backend and request keys.
Study Root C-GET	STUDY, SERIES, and IMAGE retrieve paths are supported.

7.3 Matching and Return Keys

Query matching is governed by the configured database and query backend. Exact matching, wildcard matching, date and time range matching, UID matching, Patient Name handling, issuer handling, ordering, and any result limits are deployment and backend dependent.

No product-wide default query result limit is claimed. Per-AE or backend-specific limits may be configured.

On Microsoft SQL Server deployments a paged query over the study, series, and image index applies deterministic ordering with a stable tie-breaker, so a non-zero page offset returns the requested page. Query result ordering remains backend-dependent and is not a conformance claim.

7.4 Retrieve Status and Counts

Study Root C-MOVE and C-GET report retrieve status from the outcome of the storage sub-operations actually performed.

Outcome	Final status
Every sub-operation succeeded	Success, 0000
At least one succeeded and at least one failed	Warning, B000, sub-operations complete with one or more failures
None succeeded and at least one failed	Failed, C000

Completed, failed, warning, and remaining sub-operation counts accompany the status and reflect the sub-operations performed, including the partial-failure case. Unknown C-MOVE destinations are reported as failure; this statement does not promise a specific failure status code for that condition.

8. Modality Worklist

Pukka-j Nexus supports Modality Worklist SCP behaviour when configured with an order-backed workflow. DMWL SCU behaviour is supported by acting as a proxy.

Item	Behaviour
SOP Class	Modality Worklist Information Model - FIND, 1.2.840.10008.5.1.4.31.
SCP role	Supported when configured.
SCU role	Supported where configured as a proxy.
Matching keys	Patient ID, Accession Number, and Requested Procedure ID are supported in the validated order-backed path. Additional matching depends on the configured backend.
Return keys	Returned fields depend on the stored order data and configured mappings.
Scheduled Station AE Title	Configuration-dependent.
No-result query	Completes successfully with no returned matches where no matching order exists.

9. Unsupported or Not Claimed Services

Service	Status
C-CANCEL	Not claimed.
N-CREATE	Not claimed.
N-SET	Not claimed.
N-ACTION	Not claimed.
N-EVENT-REPORT	Not claimed.
N-GET	Not claimed.
N-DELETE	Not claimed.
Storage Commitment	Not claimed.
Modality Performed Procedure Step	Not claimed.
Unified Procedure Step	Not claimed.

10. Transfer Syntaxes

Transfer Syntax Name	UID	SCP	SCU	Support label	Notes
Implicit VR Little Endian	1.2.840.10008.1.2	Accepted	Proposed	Supported by default	Baseline uncompressed syntax.
Explicit VR Little Endian	1.2.840.10008.1.2.1	Accepted	Proposed	Supported by default	Baseline uncompressed syntax.
Explicit VR Big Endian	1.2.840.10008.1.2.2	Configurable	Configurable	Supported when enabled	Retired transfer syntax; use depends on configuration.
JPEG Baseline	1.2.840.10008.1.2.4.50	Configurable	Configurable	Supported when enabled	Compression handling is configuration-dependent.
JPEG Extended	1.2.840.10008.1.2.4.51	Configurable	Configurable	Supported when enabled	Compression handling is configuration-dependent.
JPEG Lossless	1.2.840.10008.1.2.4.57 1.2.840.10008.1.2.4.70	Configurable	Configurable	Supported when enabled	Compression handling is configuration-dependent. Colour frames above eight-bit precision are not decoded; see the note below this table.
JPEG-LS	1.2.840.10008.1.2.4.80 1.2.840.10008.1.2.4.81	Configurable	Configurable	Supported when enabled	Compression handling is configuration-dependent.
JPEG 2000	1.2.840.10008.1.2.4.90 1.2.840.10008.1.2.4.91	Configurable	Configurable	Supported when enabled	Compression handling is configuration-dependent.
RLE Lossless	1.2.840.10008.1.2.5	Configurable	Configurable	Supported when enabled	Compression handling is configuration-dependent.
High-Throughput JPEG 2000 (HTJ2K)	1.2.840.10008.1.2.4.20 1.2.840.10008.1.2.4.202, 1.2.840.10008.1.2.4.203	Configurable	Configurable	Supported when enabled	Compression handling is configuration-dependent.
Deflated Explicit VR Little Endian	1.2.840.10008.1.2.1.99	Not claimed	Not claimed	Not claimed	Not part of the current customer claim.

Transfer Syntax Name	UID	SCP	SCU	Support label	Notes
MPEG/video transfer syntaxes	Various	Not claimed	Not claimed	Not claimed	Not part of the current customer claim.

Compressed transfer syntaxes are supported when enabled, with configuration-dependent decompression and transcoding behaviour. No universal transcoding guarantee is made by this statement.

A three-component (colour) JPEG Lossless frame whose sample precision is above eight bits is not decoded. It fails with a diagnostic naming the precision rather than producing pixel values that cannot be trusted. Single-component (monochrome) frames up to sixteen bits are unaffected. This limits decoding and any operation that needs decoded pixels; it does not by itself prevent such an object being stored or transferred in its original transfer syntax.

11. Communication Profiles

Profile	Behaviour
TCP/IP TLS	Supported for classic DICOM DIMSE networking. Optional and configurable. Certificate, trust-store, protocol, and cipher suite choices are deployment-specific.
IPv4/IPv6	Deployment-specific network stack behaviour.

12. Security and Logging

Topic	Behaviour
Called AE Title validation	Configurable; the default system policy is promiscuous.
Calling AE Title filtering	Configurable through known remote AE settings.
Host-based checks	Deployment-specific.
TLS	Optional and configurable.
DICOM User Identity negotiation	Not claimed.
Communication recording and audit	Configurable and disabled by default unless configured otherwise.
Regulatory compliance	No HIPAA, NHS, DCB, ISO, or other regulatory compliance claim is made by this DICOM Conformance Statement.
Site security controls	Firewall, certificate, trust-store, access control, and audit policy are deployment responsibilities unless covered by a separate Pukka-j deployment document.

13. Configuration

Configuration area	Public behaviour
Listener port	DICOM input node defaults to 104 when configured; deployments may override it.
Listener AE Title	UI default is MINT; deployments may configure the AE Title.
Remote AE definitions	Host, port, called AE Title, calling AE Title, and retrieve destination settings are configurable.
AE checks	Promiscuous by default; strict called and calling AE checks can be configured.
SOP Classes	Storage and service SOP Classes are configured through the DICOM node and storage catalogue.
Transfer syntaxes	Accepted and proposed transfer syntaxes are configurable.
Timeouts	Association, socket, query, retrieve, and store timeout behaviour is deployment-configurable.
TLS	Optional and deployment-configurable.
Logging and communication recording	Configurable and disabled by default unless configured otherwise.

Configuration area	Public behaviour
Storage, cache, and retention	Node and deployment configuration determine file/database/cache retention behaviour.

14. Character Sets

Specific Character Set handling is supported by the DICOM parsing and encoding layer. Character-set behaviour depends on stored object content and configured query, storage, and retrieve paths.

Site acceptance testing should include representative non-default character sets where they are required by the deployment, including storage, query, retrieve, and display workflows as applicable.

15. Extensions, Specialisations, and Private Behaviour

Storage SOP Classes from the shipped catalogue may include private or retired storage classes. Their acceptance, storage, and indexing are configuration-dependent. This statement does not claim display, rendering, or semantic processing for private, retired, or specialised object families unless covered by separate product documentation.

No private transfer syntax is claimed in this statement.

15.1 DICOM Explorer Compatibility Mode

Pukka-j Nexus can be run in a compatibility mode for legacy DICOM Explorer and ncase clients, enabled by setting the service's application identifier to **DEX**. The setting is service-wide, is not a per-node option, and takes effect on restart. It does not change the configured ports, AE Titles, or archive connection details.

Item	Behaviour
Purpose	Some legacy DICOM Explorer C-GET clients do not propose Storage SOP Class presentation contexts. In this mode Pukka-j Nexus may return C-GET image data over the accepted C-GET presentation context where the instance can be sent with an accepted transfer syntax.
Scope	Clients that do propose storage contexts continue to use them. Deployments not in this mode continue to reject a C-GET that omits the required storage contexts.
Client detection	A remote implementation or version string resembling a DICOM Explorer client is supporting evidence only; the fallback is enabled by the application identifier alone.
Transfer syntaxes	Selection remains explicit. This mode does not bypass transfer syntax checks and does not imply transcoding.
Proxy retrieve	In C-MOVE proxy workflows Pukka-j Nexus acknowledges the archive's C-STORE sub-operation once the instance has been accepted and handed to the legacy forwarding path, so the archive's C-MOVE response stream is not held open by legacy client response handling.
Implementation Version Name	Announced with the DEX application identifier, so the value differs from a standard deployment.

This mode exists for deployments that must serve legacy DICOM Explorer clients. Standards-compliant deployments should leave the application identifier at the product value.

16. Known Limitations

Limitation	Description
DICOMweb excluded	QIDO-RS, WADO-RS, STOW-RS, DICOMweb proxy behaviour, and Azure DICOM service behaviour are outside the scope of this statement.
Patient Root retrieve	Patient Root C-MOVE and Patient Root C-GET are not claimed.
C-CANCEL	C-CANCEL is not claimed.
N-service classes	N-CREATE, N-SET, N-ACTION, N-EVENT-REPORT, N-GET, and N-DELETE are not claimed.
Storage Commitment, MPPS, UPS	These services are not claimed.
MPEG/video	MPEG and video transfer syntaxes are not claimed.
Object semantics	Acceptance, storage, and indexing of a SOP Class does not imply display, rendering, measurement, or specialised clinical workflow support.
C-GET storage contexts	A C-GET SCU must propose Storage SOP Class presentation contexts for the instances it expects to receive. An association that negotiates only Query/Retrieve contexts fails the retrieve, except in DICOM Explorer compatibility mode.
Retrieve transfer syntax	An instance is returned only on a presentation context accepted for its SOP Class and transfer syntax. Pukka-j Nexus does not transcode to satisfy a retrieve.
C-MOVE transfer syntax preference	Transfer syntax preference derived from the negotiated association is applied to C-GET but not to C-MOVE. A C-MOVE to a destination that cannot accept the stored transfer syntax fails with a diagnostic.
Unknown C-MOVE destination	Reported as failure; no specific status code is promised for this condition.
TLS	Requires deployment configuration.
Query matching	Matching semantics, ordering, and limits are backend and configuration dependent.
JPEG Lossless colour precision	A three-component JPEG Lossless frame with a sample precision above eight bits is not decoded and fails with a diagnostic. Monochrome frames are unaffected.
Transfer syntax conversion	Decompression and transcoding behaviour is configuration-dependent.

Appendix A: Storage SOP Classes

This appendix lists the Storage SOP Class catalogue used for Pukka-j Nexus DICOM Storage SCP/SCU conformance documentation.

Unless a stronger statement is made elsewhere in this conformance statement, the support meaning for the SOP Classes listed here is:

Accepted, stored, and indexed where configured.

This does not imply display, rendering, measurement, clinical interpretation, specialised workflow processing, transcoding, or semantic validation for every object family. Those behaviours are configuration-dependent and may require separate workflow support.

The public Storage SOP Class catalogue includes the common list. To avoid duplicate rows, this appendix presents:

1. Common Storage SOP Classes.
2. Additional public Storage SOP Classes not already listed in the common set.
3. Retired public SOP Classes present in the supplied retired catalogue.
4. Private/proprietary SOP Classes present in the supplied private catalogue.

Retired service or management SOP Classes listed in the retired catalogue are included for catalogue visibility only. Their presence in this appendix must not be read as a claim that retired service workflows, Storage Commitment, Print Management, MPPS, or other N-service behaviours are supported unless explicitly stated elsewhere in this conformance statement.

Catalogue section	Rows
Common Storage SOP Classes	44
Additional Public Storage SOP Classes	113
Retired Public SOP Classes	29
Private / Proprietary SOP Classes	5
Total listed rows	191

A.1 Common Storage SOP Classes

SOP Class Name	SOP Class UID	Object family	Support / notes
Computed Radiography Image Storage	1.2.840.10008.5.1.4.1.1.1	X-ray image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Digital X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.1	X-ray image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Digital X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.1.1	X-ray image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Digital Mammography X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.2	Breast / mammography image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Digital Mammography X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.2.1	Breast / mammography image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Digital Intra-Oral X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.1.3	X-ray image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Digital Intra-Oral X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.1.3.1	X-ray image	Default/common storage catalogue. Accepted/stored/indexed where configured.
CT Image Storage	1.2.840.10008.5.1.4.1.1.2	CT image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.1	CT image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Legacy Converted Enhanced CT Image Storage	1.2.840.10008.5.1.4.1.1.2.2	CT image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Ultrasound Multi-frame Image Storage	1.2.840.10008.5.1.4.1.1.3.1	Ultrasound image	Default/common storage catalogue. Accepted/stored/indexed where configured.
MR Image Storage	1.2.840.10008.5.1.4.1.1.4	MR image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.1	MR image	Default/common storage catalogue. Accepted/stored/indexed where configured.

SOP Class Name	SOP Class UID	Object family	Support / notes
MR Spectroscopy Storage	1.2.840.10008.5.1.4.1.1.4.2	MR image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Enhanced MR Color Image Storage	1.2.840.10008.5.1.4.1.1.4.3	MR image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Legacy Converted Enhanced MR Image Storage	1.2.840.10008.5.1.4.1.1.4.4	MR image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6.1	Ultrasound image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7	Secondary capture image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.1	Presentation state / display	Default/common storage catalogue. Accepted/stored/indexed where configured.
X-Ray Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.12.1	X-ray image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Enhanced XA Image Storage	1.2.840.10008.5.1.4.1.1.12.1	Image	Default/common storage catalogue. Accepted/stored/indexed where configured.
X-Ray Radiofluoroscopic Image Storage	1.2.840.10008.5.1.4.1.1.12.2	X-ray image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Enhanced XRF Image Storage	1.2.840.10008.5.1.4.1.1.12.2	Image	Default/common storage catalogue. Accepted/stored/indexed where configured.
X-Ray 3D Angiographic Image Storage	1.2.840.10008.5.1.4.1.1.13.1	X-ray image	Default/common storage catalogue. Accepted/stored/indexed where configured.
X-Ray 3D Craniofacial Image Storage	1.2.840.10008.5.1.4.1.1.13.1	X-ray image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Breast Tomosynthesis Image Storage	1.2.840.10008.5.1.4.1.1.13.1	Breast / mammography image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Breast Projection X-Ray Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.13.1	Breast / mammography image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Breast Projection X-Ray Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.13.1	Breast / mammography image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Nuclear Medicine Image Storage	1.2.840.10008.5.1.4.1.1.20	Nuclear medicine image	Default/common storage catalogue. Accepted/stored/indexed where configured.

SOP Class Name	SOP Class UID	Object family	Support / notes
Raw Data Storage	1.2.840.10008.5.1.4.1.1.66	Raw data	Default/common storage catalogue. Accepted/stored/indexed where configured.
Basic Text SR Storage	1.2.840.10008.5.1.4.1.1.88.1	Structured report	Default/common storage catalogue. Accepted/stored/indexed where configured.
Enhanced SR Storage	1.2.840.10008.5.1.4.1.1.88.2	Structured report	Default/common storage catalogue. Accepted/stored/indexed where configured.
Comprehensive SR Storage	1.2.840.10008.5.1.4.1.1.88.3	Structured report	Default/common storage catalogue. Accepted/stored/indexed where configured.
Key Object Selection Document Storage	1.2.840.10008.5.1.4.1.1.88.5	Key object selection	Default/common storage catalogue. Accepted/stored/indexed where configured.
X-Ray Radiation Dose SR Storage	1.2.840.10008.5.1.4.1.1.88.6	Structured report	Default/common storage catalogue. Accepted/stored/indexed where configured.
Encapsulated PDF Storage	1.2.840.10008.5.1.4.1.1.104.1	Encapsulated document / object	Default/common storage catalogue. Accepted/stored/indexed where configured.
Positron Emission Tomography Image Storage	1.2.840.10008.5.1.4.1.1.128.1	PET image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Legacy Converted Enhanced PET Image Storage	1.2.840.10008.5.1.4.1.1.128.1	PET image	Default/common storage catalogue. Accepted/stored/indexed where configured.
Enhanced PET Image Storage	1.2.840.10008.5.1.4.1.1.130.1	PET image	Default/common storage catalogue. Accepted/stored/indexed where configured.
RT Image Storage	1.2.840.10008.5.1.4.1.1.481.1	Radiotherapy	Default/common storage catalogue. Accepted/stored/indexed where configured.
RT Dose Storage	1.2.840.10008.5.1.4.1.1.481.2	Radiotherapy	Default/common storage catalogue. Accepted/stored/indexed where configured.
RT Structure Set Storage	1.2.840.10008.5.1.4.1.1.481.3	Radiotherapy	Default/common storage catalogue. Accepted/stored/indexed where configured.
RT Beams Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.4	Radiotherapy	Default/common storage catalogue. Accepted/stored/indexed where configured.
RT Plan Storage	1.2.840.10008.5.1.4.1.1.481.5	Radiotherapy	Default/common storage catalogue. Accepted/stored/indexed where configured.

A.2 Additional Public Storage SOP Classes

SOP Class Name	SOP Class UID	Object family	Support / notes
Enhanced US Volume Storage	1.2.840.10008.5.1.4.1.1.6.2	Ultrasound image	Public storage catalogue. Accepted/stored/indexed where configured.
Multi-frame Single Bit Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.1	Secondary capture image	Public storage catalogue. Accepted/stored/indexed where configured.
Multi-frame Grayscale Byte Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.2	Secondary capture image	Public storage catalogue. Accepted/stored/indexed where configured.
Multi-frame Grayscale Word Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.3	Secondary capture image	Public storage catalogue. Accepted/stored/indexed where configured.
Multi-frame True Color Secondary Capture Image Storage	1.2.840.10008.5.1.4.1.1.7.4	Secondary capture image	Public storage catalogue. Accepted/stored/indexed where configured.
12-lead ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.1	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
General ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.2	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Ambulatory ECG Waveform Storage	1.2.840.10008.5.1.4.1.1.9.1.3	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Hemodynamic Waveform Storage	1.2.840.10008.5.1.4.1.1.9.2.1	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Cardiac Electrophysiology Waveform Storage	1.2.840.10008.5.1.4.1.1.9.3.1	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Basic Voice Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.1	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
General Audio Waveform Storage	1.2.840.10008.5.1.4.1.1.9.4.2	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Arterial Pulse Waveform Storage	1.2.840.10008.5.1.4.1.1.9.5.1	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Respiratory Waveform Storage	1.2.840.10008.5.1.4.1.1.9.6.1	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Multi-channel Respiratory Waveform Storage	1.2.840.10008.5.1.4.1.1.9.6.2	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Routine Scalp Electroencephalogram Waveform Storage	1.2.840.10008.5.1.4.1.1.9.7.1	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Electromyogram Waveform Storage	1.2.840.10008.5.1.4.1.1.9.7.2	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Electrooculogram Waveform Storage	1.2.840.10008.5.1.4.1.1.9.7.3	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Sleep Electroencephalogram Waveform Storage	1.2.840.10008.5.1.4.1.1.9.7.4	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Body Position Waveform Storage	1.2.840.10008.5.1.4.1.1.9.8.1	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Color Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.2	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
Pseudo-Color Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.3	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.

SOP Class Name	SOP Class UID	Object family	Support / notes
Blending Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.4	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
XA/XRF Grayscale Softcopy Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.5	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
Grayscale Planar MPR Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.6	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
Compositing Planar MPR Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.7	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
Advanced Blending Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.8	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
Volume Rendering Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.9	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
Segmented Volume Rendering Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.10	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
Multiple Volume Rendering Volumetric Presentation State Storage	1.2.840.10008.5.1.4.1.1.11.11	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
Intravascular Optical Coherence Tomography Image Storage - For Presentation	1.2.840.10008.5.1.4.1.1.14.1	Image	Public storage catalogue. Accepted/stored/indexed where configured.
Intravascular Optical Coherence Tomography Image Storage - For Processing	1.2.840.10008.5.1.4.1.1.14.2	Image	Public storage catalogue. Accepted/stored/indexed where configured.
Parametric Map Storage	1.2.840.10008.5.1.4.1.1.30	Other storage object	Public storage catalogue. Accepted/stored/indexed where configured.
Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.1	Derived / registration / segmentation	Public storage catalogue. Accepted/stored/indexed where configured.
Spatial Fiducials Storage	1.2.840.10008.5.1.4.1.1.66.2	Derived / registration / segmentation	Public storage catalogue. Accepted/stored/indexed where configured.
Deformable Spatial Registration Storage	1.2.840.10008.5.1.4.1.1.66.3	Derived / registration / segmentation	Public storage catalogue. Accepted/stored/indexed where configured.
Segmentation Storage	1.2.840.10008.5.1.4.1.1.66.4	Derived / registration / segmentation	Public storage catalogue. Accepted/stored/indexed where configured.
Surface Segmentation Storage	1.2.840.10008.5.1.4.1.1.66.5	Derived / registration / segmentation	Public storage catalogue. Accepted/stored/indexed where configured.
Tractography Results Storage	1.2.840.10008.5.1.4.1.1.66.6	Derived / registration / segmentation	Public storage catalogue. Accepted/stored/indexed where configured.
Real World Value Mapping Storage	1.2.840.10008.5.1.4.1.1.67	Derived / registration / segmentation	Public storage catalogue. Accepted/stored/indexed where configured.
Surface Scan Mesh Storage	1.2.840.10008.5.1.4.1.1.68.1	Derived / registration / segmentation	Public storage catalogue. Accepted/stored/indexed where configured.
Surface Scan Point Cloud Storage	1.2.840.10008.5.1.4.1.1.68.2	Derived / registration / segmentation	Public storage catalogue. Accepted/stored/indexed where configured.
VL Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1	Visible light image	Public storage catalogue. Accepted/stored/indexed where configured.

SOP Class Name	SOP Class UID	Object family	Support / notes
Video Endoscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.1	Visible light image	Public storage catalogue. Accepted/stored/indexed where configured.
VL Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.2	Visible light image	Public storage catalogue. Accepted/stored/indexed where configured.
Video Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.3	Visible light image	Public storage catalogue. Accepted/stored/indexed where configured.
VL Slide-Coordinates Microscopic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.4	Visible light image	Public storage catalogue. Accepted/stored/indexed where configured.
VL Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.5	Visible light image	Public storage catalogue. Accepted/stored/indexed where configured.
Video Photographic Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.6	Visible light image	Public storage catalogue. Accepted/stored/indexed where configured.
Ophthalmic Photography 8 Bit Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.7	Ophthalmic image	Public storage catalogue. Accepted/stored/indexed where configured.
Ophthalmic Photography 16 Bit Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.8	Ophthalmic image	Public storage catalogue. Accepted/stored/indexed where configured.
Stereometric Relationship Storage	1.2.840.10008.5.1.4.1.1.77.1.1.9	Other storage object	Public storage catalogue. Accepted/stored/indexed where configured.
Ophthalmic Tomography Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.10	Ophthalmic image	Public storage catalogue. Accepted/stored/indexed where configured.
Wide Field Ophthalmic Photography Stereographic Projection Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.11	Ophthalmic image	Public storage catalogue. Accepted/stored/indexed where configured.
Wide Field Ophthalmic Photography 3D Coordinates Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.12	Ophthalmic image	Public storage catalogue. Accepted/stored/indexed where configured.
Ophthalmic Optical Coherence Tomography En Face Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.13	Ophthalmic image	Public storage catalogue. Accepted/stored/indexed where configured.
Ophthalmic Optical Coherence Tomography B-scan Volume Analysis Storage	1.2.840.10008.5.1.4.1.1.77.1.1.14	Ophthalmic image	Public storage catalogue. Accepted/stored/indexed where configured.
VL Whole Slide Microscopy Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.15	Visible light image	Public storage catalogue. Accepted/stored/indexed where configured.
Dermoscopic Photography Image Storage	1.2.840.10008.5.1.4.1.1.77.1.1.16	Visible light image	Public storage catalogue. Accepted/stored/indexed where configured.
Lensometry Measurements Storage	1.2.840.10008.5.1.4.1.1.78.1	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Autorefraction Measurements Storage	1.2.840.10008.5.1.4.1.1.78.2	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Keratometry Measurements Storage	1.2.840.10008.5.1.4.1.1.78.3	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Subjective Refraction Measurements Storage	1.2.840.10008.5.1.4.1.1.78.4	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Visual Acuity Measurements Storage	1.2.840.10008.5.1.4.1.1.78.5	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Spectacle Prescription Report Storage	1.2.840.10008.5.1.4.1.1.78.6	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.

SOP Class Name	SOP Class UID	Object family	Support / notes
Ophthalmic Axial Measurements Storage	1.2.840.10008.5.1.4.1.1.78.7	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Intraocular Lens Calculations Storage	1.2.840.10008.5.1.4.1.1.78.8	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Macular Grid Thickness and Volume Report	1.2.840.10008.5.1.4.1.1.79.1	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Ophthalmic Visual Field Static Perimetry Measurements Storage	1.2.840.10008.5.1.4.1.1.80.1	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Ophthalmic Thickness Map Storage	1.2.840.10008.5.1.4.1.1.81.1	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Corneal Topography Map Storage	1.2.840.10008.5.1.4.1.1.82.1	Ophthalmic / measurement	Public storage catalogue. Accepted/stored/indexed where configured.
Comprehensive 3D SR Storage	1.2.840.10008.5.1.4.1.1.88.34	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Extensible SR Storage	1.2.840.10008.5.1.4.1.1.88.35	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Procedure Log Storage	1.2.840.10008.5.1.4.1.1.88.40	Other storage object	Public storage catalogue. Accepted/stored/indexed where configured.
Mammography CAD SR Storage	1.2.840.10008.5.1.4.1.1.88.56	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Chest CAD SR Storage	1.2.840.10008.5.1.4.1.1.88.65	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Radiopharmaceutical Radiation Dose SR Storage	1.2.840.10008.5.1.4.1.1.88.68	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Colon CAD SR Storage	1.2.840.10008.5.1.4.1.1.88.69	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Implantation Plan SR Document Storage	1.2.840.10008.5.1.4.1.1.88.76	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Acquisition Context SR Storage	1.2.840.10008.5.1.4.1.1.88.75	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Simplified Adult Echo SR Storage	1.2.840.10008.5.1.4.1.1.88.72	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Patient Radiation Dose SR Storage	1.2.840.10008.5.1.4.1.1.88.73	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Planned Imaging Agent Administration SR Storage	1.2.840.10008.5.1.4.1.1.88.74	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Performed Imaging Agent Administration SR Storage	1.2.840.10008.5.1.4.1.1.88.75	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Enhanced X-Ray Radiation Dose SR Storage	1.2.840.10008.5.1.4.1.1.88.76	Structured report	Public storage catalogue. Accepted/stored/indexed where configured.
Content Assessment Results Storage	1.2.840.10008.5.1.4.1.1.90.1	Other storage object	Public storage catalogue. Accepted/stored/indexed where configured.
Microscopy Bulk Simple Annotations Storage	1.2.840.10008.5.1.4.1.1.91.1	Other storage object	Public storage catalogue. Accepted/stored/indexed where configured.

SOP Class Name	SOP Class UID	Object family	Support / notes
Encapsulated CDA Storage	1.2.840.10008.5.1.4.1.1.104.1	Encapsulated document / object	Public storage catalogue. Accepted/stored/indexed where configured.
Encapsulated STL Storage	1.2.840.10008.5.1.4.1.1.104.2	Encapsulated document / object	Public storage catalogue. Accepted/stored/indexed where configured.
Encapsulated OBJ Storage	1.2.840.10008.5.1.4.1.1.104.3	Encapsulated document / object	Public storage catalogue. Accepted/stored/indexed where configured.
Encapsulated MTL Storage	1.2.840.10008.5.1.4.1.1.104.4	Encapsulated document / object	Public storage catalogue. Accepted/stored/indexed where configured.
Basic Structured Display Storage	1.2.840.10008.5.1.4.1.1.131	Presentation state / display	Public storage catalogue. Accepted/stored/indexed where configured.
CT Performed Procedure Protocol Storage	1.2.840.10008.5.1.4.1.1.200.1	Performed protocol	Public storage catalogue. Accepted/stored/indexed where configured.
XA Performed Procedure Protocol Storage	1.2.840.10008.5.1.4.1.1.200.8	Performed protocol	Public storage catalogue. Accepted/stored/indexed where configured.
RT Brachy Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.6	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Treatment Summary Record Storage	1.2.840.10008.5.1.4.1.1.481.7	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Ion Plan Storage	1.2.840.10008.5.1.4.1.1.481.8	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Ion Beams Treatment Record Storage	1.2.840.10008.5.1.4.1.1.481.9	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Physician Intent Storage	1.2.840.10008.5.1.4.1.1.481.10	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Segment Annotation Storage	1.2.840.10008.5.1.4.1.1.481.11	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Radiation Set Storage	1.2.840.10008.5.1.4.1.1.481.12	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
C-Arm Photon-Electron Radiation Storage	1.2.840.10008.5.1.4.1.1.481.13	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Tomotherapeutic Radiation Storage	1.2.840.10008.5.1.4.1.1.481.14	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
Robotic-Arm Radiation Storage	1.2.840.10008.5.1.4.1.1.481.15	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Radiation Record Set Storage	1.2.840.10008.5.1.4.1.1.481.16	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Radiation Salvage Record Storage	1.2.840.10008.5.1.4.1.1.481.17	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
Tomotherapeutic Radiation Record Storage	1.2.840.10008.5.1.4.1.1.481.18	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
C-Arm Photon-Electron Radiation Record Storage	1.2.840.10008.5.1.4.1.1.481.19	Waveform	Public storage catalogue. Accepted/stored/indexed where configured.
Robotic Radiation Record Storage	1.2.840.10008.5.1.4.1.1.481.20	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.

SOP Class Name	SOP Class UID	Object family	Support / notes
RT Radiation Set Delivery Instruction Storage	1.2.840.10008.5.1.4.1.1.481.2	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Treatment Preparation Storage	1.2.840.10008.5.1.4.1.1.481.2	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Beams Delivery Instruction Storage	1.2.840.10008.5.1.4.34.7	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.
RT Brachy Application Setup Delivery Instruction Storage	1.2.840.10008.5.1.4.34.10	Radiotherapy	Public storage catalogue. Accepted/stored/indexed where configured.

A.3 Retired Public SOP Classes

SOP Class Name	SOP Class UID	Object family	Support / notes
Storage Commitment Pull Model	1.2.840.10008.1.20.2	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Basic Study Content Notification	1.2.840.10008.1.9	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Detached Patient Management	1.2.840.10008.3.1.2.1.1	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Detached Patient Management Meta	1.2.840.10008.3.1.2.1.4	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Detached Visit Management	1.2.840.10008.3.1.2.2.1	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Detached Study Management	1.2.840.10008.3.1.2.3.1	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Study Component Management	1.2.840.10008.3.1.2.3.2	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Detached Results Management	1.2.840.10008.3.1.2.5.1	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Detached Results Management Meta	1.2.840.10008.3.1.2.5.4	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.

SOP Class Name	SOP Class UID	Object family	Support / notes
Detached Study Management Meta	1.2.840.10008.3.1.2.5.5	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Detached Interpretation Management	1.2.840.10008.3.1.2.6.1	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Referenced Color Print Management Meta	1.2.840.10008.5.1.1.18.1	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Image Overlay Box	1.2.840.10008.5.1.1.24	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Basic Print Image Overlay Box	1.2.840.10008.5.1.1.24.1	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Print Queue Management	1.2.840.10008.5.1.1.26	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Stored Print Storage	1.2.840.10008.5.1.1.27	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Hardcopy Grayscale Image Storage	1.2.840.10008.5.1.1.29	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Hardcopy Color Image Storage	1.2.840.10008.5.1.1.30	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Pull Print Request	1.2.840.10008.5.1.1.31	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Pull Stored Print Management Meta	1.2.840.10008.5.1.1.32	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Referenced Image Box	1.2.840.10008.5.1.1.4.2	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Referenced Grayscale Print Management Meta	1.2.840.10008.5.1.1.9.1	Retired service / management	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.

SOP Class Name	SOP Class UID	Object family	Support / notes
Ultrasound Image Storage	1.2.840.10008.5.1.4.1.1.6	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Standalone Overlay Storage	1.2.840.10008.5.1.4.1.1.8	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Standalone Curve Storage	1.2.840.10008.5.1.4.1.1.9	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Standalone Modality LUT Storage	1.2.840.10008.5.1.4.1.1.10	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Standalone VOI LUT Storage	1.2.840.10008.5.1.4.1.1.11	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
X-Ray Angiographic Bi-plane Image Storage	1.2.840.10008.5.1.4.1.1.12.3	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.
Standalone Positron Emission Tomography Curve Storage	1.2.840.10008.5.1.4.1.1.129	Retired storage	Retired catalogue entry. Catalogue visibility only; not a claim of retired service workflow support unless stated elsewhere.

A.4 Private / Proprietary SOP Classes

SOP Class Name	SOP Class UID	Object family	Support / notes
Proprietary PJ Letter Store	1.2.826.0.1.3680043.2.526.11.1.1	Private / proprietary	Private/proprietary catalogue entry. Accepted/stored/indexed where configured; semantics are vendor/workflow-dependent.
Proprietary PJ Zip Store	1.2.826.0.1.3680043.2.526.11.1.2	Private / proprietary	Private/proprietary catalogue entry. Accepted/stored/indexed where configured; semantics are vendor/workflow-dependent.
Proprietary PJ Info Store	1.2.826.0.1.3680043.2.526.11.1.3	Private / proprietary	Private/proprietary catalogue entry. Accepted/stored/indexed where configured; semantics are vendor/workflow-dependent.
Siemens PT CT Sinogram	1.3.12.2.1107.5.9.1	Private / specialist	Private/proprietary catalogue entry. Accepted/stored/indexed where configured; semantics are vendor/workflow-dependent.

SOP Class Name	SOP Class UID	Object family	Support / notes
Varian Ethos Private RT Plan Storage	1.2.246.352.70.1.70	Private / specialist	Private/proprietary catalogue entry. Accepted/stored/indexed where configured; semantics are vendor/workflow-dependent.