



Hyland Healthcare - Enterprise Imaging

IHE Integration Statement
March 2018

Hyland®

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Introduction

This IHE Integration Statement summarizes conformance of Lexmark Healthcare products with the IHE Technical Framework. Listed below are conformance details for each product in terms of Integration

Acuo VNA

| Integration Profile | Actor | Integration Profile Option |
|--------------------------------------|---------------------------------------|-----------------------------------|
| Audit Trail and Node Authentication | Audit Record Repository | None |
| Audit Trail and Node Authentication | Audit Record Repository | Retrieve Audit Message |
| Audit Trail and Node Authentication | Audit Record Repository | Retrieve Syslog Message |
| Audit Trail and Node Authentication | Audit Consumer | None |
| Audit Trail and Node Authentication | Audit Consumer | Retrieve Audit Message |
| Audit Trail and Node Authentication | Audit Consumer | Retrieve Syslog Message |
| Audit Trail and Node Authentication | Audit Record Forwarder | None |
| Audit Trail and Node Authentication | Secure Application | None |
| Audit Trail and Node Authentication | Secure Application | Radiology Audit Trail |
| Audit Trail and Node Authentication | Secure Node | None |
| Audit Trail and Node Authentication | Secure Node | Radiology Audit Trail |
| Consistent Time | Time Client | None |
| Access to Radiology Information | Image Manager/Archive | None |
| Cardiac Catheterization Workflow | Image Manager/Archive | None |
| Cardiac Catheterization Workflow | Image Manager/Archive | Intermittently Connected Modality |
| Cardiac Catheterization Workflow | Performed Procedure Step Manager | None |
| Consistent Presentation of Images | Image Display | None |
| Consistent Presentation of Images | Image Manager/Archive | None |
| DEPRECATED: Post-Processing Workflow | Image Manager/Archive | None |
| Document Metadata Subscription | Document Metadata Notification Broker | None |

Acuo VNA

| Integration Profile | Actor | Integration Profile Option |
|-----------------------------------|---------------------------------------|-------------------------------------|
| Document Metadata Subscription | Document Metadata Notification Broker | Document Metadata Publish Recipient |
| Document Metadata Subscription | Document Metadata Publisher | None |
| Echocardiography Workflow | Image Manager/Archive | None |
| Echocardiography Workflow | Image Manager/Archive | Echocardiography |
| Echocardiography Workflow | Image Manager/Archive | Intermittently Connected Modality |
| Echocardiography Workflow | Performed Procedure Step Manager | None |
| Evidence Documents | Image Manager/Archive | None |
| Cardiology Evidence Documents | Image Manager/Archive | None |
| Key Image Note | Image Manager/Archive | None |
| Internet User Authorization | Authorization Client | None |
| Internet User Authorization | Authorization Client | OAuth Bearer Token |
| Internet User Authorization | Authorization Server | None |
| Internet User Authorization | Authorization Server | OAuth Bearer Token |
| Internet User Authorization | Resource Server | None |
| Internet User Authorization | Resource Server | OAuth Bearer Token |
| Internet User Authorization | Resource Server | SAML Token |
| Mammography Image | Image Manager/Archive | None |
| Multi-Patient Queries | Document Registry | None |
| Multi-Patient Queries | Document Registry | Asynchronous Web Services Exchange |
| NM Image | Image Manager/Archive | None |
| Mobile access to Health Documents | Document Recipient | None |
| Mobile access to Health Documents | Document Recipient | Comprehensive Metadata |
| Mobile access to Health Documents | Document Recipient | XDS on FHIR |
| Mobile access to Health Documents | Document Responder | None |
| Mobile access to Health Documents | Document Responder | XDS on FHIR |
| Mobile access to Health Documents | Document Source | None |
| Mobile access to Health Documents | Document Source | Comprehensive Metadata |

Acuo VNA

| Integration Profile | Actor | Integration Profile Option |
|---|---|--------------------------------------|
| Patient Demographics Query | Patient Demographics Supplier | None |
| Patient Demographics Query | Patient Demographics Supplier | Patient Demographics and Visit Query |
| Patient Demographics Query | Patient Demographics Supplier | Pediatric Demographics |
| Patient Demographics Query for Mobile | Patient Demographics Supplier | None |
| Patient Demographics Query for Mobile | Patient Demographics Supplier | Continuation Option |
| Patient Demographics Query for Mobile | Patient Demographics Supplier | Pediatric Demographics |
| Patient Demographic Query HL7 V3 | Patient Demographics Consumer | None |
| Patient Demographic Query HL7 V3 | Patient Demographics Supplier | None |
| Patient Demographic Query HL7 V3 | Patient Demographics Supplier | Continuation Option |
| Patient Demographic Query HL7 V3 | Patient Demographics Supplier | Pediatric Demographics |
| Presentation of Grouped Procedures | Image Manager/Archive | None |
| Presentation of Grouped Procedures | Performed Procedure Step Manager | None |
| Patient Information Reconciliation | Image Manager/Archive | None |
| Patient Information Reconciliation | Performed Procedure Step Manager | None |
| Patient Identifier Cross-referencing for MPI | Patient Identifier Cross-reference Consumer | None |
| Patient Identifier Cross-referencing for MPI | Patient Identity Cross-reference Manager | None |
| Patient Identifier Cross-referencing for MPI | Patient Identity Cross-reference Manager | Pediatric Demographics |
| Patient Identifier Cross-reference for Mobile | Patient Identity Cross-reference Manager | None |
| Patient Identifier Cross-Reference HL7 V3 | Patient Identifier Cross-reference Consumer | None |
| Patient Identifier Cross-Reference HL7 V3 | Patient Identity Cross-reference Manager | None |
| Patient Identifier Cross-Reference HL7 V3 | Patient Identity Cross-reference Manager | Pediatric Demographics |
| Remove Metadata and Documents | Document Registry | None |
| Remove Metadata and Documents | Document Repository | None |
| Reporting Workflow | Image Manager/Archive | None |
| Reporting Workflow | Performed Procedure Step Manager | None |
| Stress Testing Workflow | Image Manager/Archive | None |
| Stress Testing Workflow | Performed Procedure Step Manager | None |

Acuo VNA

| Integration Profile | Actor | Integration Profile Option |
|--|----------------------------------|------------------------------------|
| Scheduled Workflow | Image Manager/Archive | None |
| Scheduled Workflow | Performed Procedure Step Manager | None |
| Sharing Value Sets | Value Set Repository | None |
| Cross-Community Access | Initiating Gateway | None |
| Cross-Community Access | Initiating Gateway | Asynchronous Web Services Exchange |
| Cross-Community Access | Responding Gateway | None |
| Cross-Community Access for Imaging | Initiating Imaging Gateway | None |
| Cross-Community Access for Imaging | Initiating Imaging Gateway | Asynchronous Web Services Exchange |
| Cross-Community Access for Imaging | Responding Imaging Gateway | None |
| Cross Community Patient Discovery | Initiating Gateway | None |
| Cross Community Patient Discovery | Initiating Gateway | Asynchronous Web Services Exchange |
| Cross Community Patient Discovery | Initiating Gateway | Health Data Locator |
| Cross Community Patient Discovery | Responding Gateway | None |
| Cross Community Patient Discovery | Responding Gateway | Health Data Locator |
| Cross-Enterprise Document Media Interchange | Portable Media Creator | None |
| Cross-Enterprise Document Media Interchange | Portable Media Creator | USB Document Storage |
| Cross-Enterprise Document Reliable Interchange | Document Recipient | None |
| Cross-Enterprise Document Reliable Interchange | Document Source | None |
| Cross-Enterprise Document Reliable Interchange of Images | Imaging Document Recipient | None |
| Cross-Enterprise Document Reliable Interchange of Images | Imaging Document Recipient | Sharing of DICOM SOP Instance |
| Cross-Enterprise Document Sharing | Document Consumer | None |
| Cross-Enterprise Document Sharing | Document Registry | None |
| Cross-Enterprise Document Sharing | Document Registry | Asynchronous Web Services Exchange |
| Cross-Enterprise Document Sharing | Document Registry | Patient Identity Feed (HL7 V3) |
| Cross-Enterprise Document Sharing | Document Registry | Document Metadata Update |
| Cross-Enterprise Document Sharing | Document Registry | Patient Identity Feed (HL7 V2) |
| Cross-Enterprise Document Sharing | Document Registry | Reference ID |

Acuo VNA

| Integration Profile | Actor | Integration Profile Option |
|---|--|------------------------------------|
| Cross-Enterprise Document Sharing | Document Registry | On-Demand Documents |
| Cross-Enterprise Document Sharing | Document Repository | None |
| Cross-Enterprise Document Sharing | Document Repository | Asynchronous Web Services Exchange |
| Cross-Enterprise Document Sharing | Document Source | None |
| Cross-Enterprise Document Sharing for Imaging | Imaging Document Consumer | None |
| Cross-Enterprise Document Sharing for Imaging | Imaging Document Source | None |
| Cross-Enterprise Document Sharing for Imaging | Imaging Document Source | Set of DICOM Instances |
| Cross Enterprise User Assertion | X-Service Provider | None |
| Cross Enterprise User Assertion | X-Service Provider | Subject-Role |
| Cross Enterprise User Assertion | X-Service Provider | Purpose of Use |
| Cross Enterprise User Assertion | X-Service User | None |
| XAD-PID Change Management | Document Registry | None |
| XAD-PID Change Management | Patient Identity Cross-reference Manager | None |

OnBase by Hyland

| Integration Profile | Actor | Integration Profile Option |
|--|--|----------------------------|
| Audit Trail and Node Authentication | Secure Application | None |
| Consistent Time | Time Client | None |
| Cross-Enterprise Document Reliable Interchange | Document Recipient | None |
| Cross-Enterprise Document Reliable Interchange | Document Recipient | Accepts Limited Metadata |
| Cross-Enterprise Document Reliable Interchange | Document Source | None |
| Cross-Enterprise Document Reliable Interchange | Metadata-Limited Document Source | None |
| Cross-Enterprise Document Sharing | Document Repository | None |
| Cross-Enterprise Document Sharing | Integrated Document Source/Repository | None |
| Cross-Enterprise Document Sharing | Integrated Document Source/Repository | Document Replacement |
| Cross Enterprise User Assertion | X-Service Provider | Purpose of Use |
| Cross Enterprise User Assertion | X-Service User | None |
| XAD-PID Change Management | Document Registry | None |
| XAD-PID Change Management | Patient Identity Cross-reference Manager | None |

PACSgear PACS Scan

| Integration Profile | Actor | Integration Profile Option |
|--|---|----------------------------|
| Audit Trail and Node Authentication (ATNA) | Secure Node | None |
| Consistent Time (CT) | Time Client | None |
| Portable Data for Imaging | Image Display | None |
| Portable Data for Imaging | Portable Media Importer | None |
| Patient Demographics Query (PDQ) | Patient Demographics Consumer | None |
| Patient Demographics Query HL7 V3 | Patient Demographics Consumer | None |
| Patient Identifier Cross-Referencing for MPI | Patient Identifier Cross-reference Consumer | None |
| Patient Identifier Cross-Reference HL7 V3 | Patient Identifier Cross-reference Consumer | None |
| Cross-Enterprise Document Sharing | Document Source | None |
| Cross-Enterprise Document Sharing of Scanned Documents | Content Creator | None |
| Cross Enterprise User Assertion | X-Service User | None |
| XAD-PID Change Management | Document Registry | None |
| XAD-PID Change Management | Patient Identity Cross-reference Manager | None |

NilRead

| Integration Profile | Actor | Integration Profile Option |
|--|---------------------------|----------------------------|
| Audit Trail and Node Authentication (ATNA) | Secure Node | None |
| Audit Trail and Node Authentication (ATNA) | Secure Application | None |
| Access to Radiology Information (ARI) | Image Display | None |
| Access to Radiology Information (ARI) | Report Reader | None |
| Basic Image Review (BIR) | Image Display | None |
| Consistent Presentation of Images (CPI) | Evidence Creator | None |
| Consistent Presentation of Images (CPI) | Image Display | None |
| Consistent Time (CT) | Time Client | None |
| Cross-Enterprise Document Sharing (XDS.b) | Document Consumer | None |
| Cross-Enterprise Document Sharing for Imaging (XDS-I.b) | Imaging Document Consumer | None |
| Cross-Enterprise Sharing of Scanned Documents Content (XDS-SD) | Content Consumer | None |

NilRead

| Integration Profile | Actor | Integration Profile Option |
|--|---|----------------------------|
| Enterprise User Authentication (EUA) | Client Authentication Agent | None |
| Evidence Documents (ED) | Evidence Creator | None |
| Evidence Documents (ED) | Image Display | None |
| Key Image Note (KIN) | Evidence Creator | None |
| Key Image Note (KIN) | Image Display | None |
| Patient Demographics Query (PDQ) | Patient Demographics Consumer | None |
| Retrieve Information for Display (RID) | Display | None |
| Patient Identifier Cross-Referencing (PIX) | Patient Identifier Cross-Reference Consumer | None |
| Simple Image and Numeric Report (SINR) | Report Reader | None |
| Invoke Image Display Profile (IID) | Image Display | None |

IHE International Conformity Assessment Test Results

| Product Name | Vendor | Product Version | Valid Until | Test Lab |
|-----------------------|----------------|-----------------|-------------|--------------------|
| Acuo eMPI-PIX Manager | Acuo by Hyland | 6.0.3 | Sep 1, 2018 | Kereval Health Lab |

IT – Infrastructure (Rev 12.0)

| IHE Profile | Actor and Options | Test Result |
|---|---|-------------|
| <p>IHE-CT</p> <p>Consistent Time enables system clocks and time stamps of computers in a network to be synchronized (median error less than 1 second).</p> | Time Client: No Option | Passed |
| <p>IHE-PDQ</p> <p>Patient Demographics Query provides ways to query a patient information server for a list of patients, based on user-defined criteria.</p> | Patient Demographics Supplier: No Option | Passed |
| <p>IHE-PDQV3</p> <p>Patient Demographics Query HL7V3 is identical to Patient Demographics Query but based on HL7V3 messages.</p> | Patient Demographics Supplier: No Option | Passed |
| <p>IHE-PIX</p> <p>Patient Identifier Cross-Referencing supports the cross-referencing of patient identifiers from multiple Patient Identifier Domains</p> | Patient Identifier Cross-Reference Manager: Pediatric demographic | Passed |
| <p>IHE=PIXV3</p> <p>Patient Identifier Cross-Referencing HL7V3 is identical to Patient Identifier Cross-Referencing but based on HL7V3 messages.</p> | Patient Identifier Cross-Reference Manager: No Option | Passed |