



syngo.share / Release VA31A / 2022-05-31 / Revision 6747

IHE Integration Statement

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1 About This Statement

Integrating the Healthcare Enterprise (IHE) is an international initiative to support vendor-independent interoperability between different healthcare systems. Interoperability is periodically tested at so-called *IHE Connectathons*, where vendors prove the successful interconnection of their software with at least three different systems by other vendors. Successful test results of implemented IHE Profiles are published as IHE Integration Statements.

In order to satisfy the highest-quality requirements, ITH icoserve has committed to periodically testing their product *syngo.share* at IHE Connectathons to confirm the compliance with current IHE Integration Profiles.

Vendor

ITH icoserve technology for healthcare GmbH

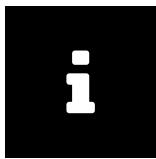
Product Name

syngo.share

Version

VA31A

This product implements all transactions required in the IHE Technical Framework to support the IHE Integration Profiles, Actors and Options listed on the following pages.



Note

Profiles are tested regularly at EU and/or US Connectathons.

2 Profiles

Table 1: Profiles

| Integration Profiles Implemented | Actors Implemented | Options Implemented | syngo.share core | syngo.share import | syngo.share view | syngo.share webview | |
|---|---------------------------|------------------------------------|------------------|--------------------|------------------|---------------------|--|
| Access to Radiology Information (ARI) | Image Manager/Archive | - | ✓ | | | | |
| | Image Display | - | | | ✓ | | |
| | Report Repository | - | ✓ | | | | |
| Audit Trail and Node Authentication (ATNA) | Audit Record Repository | - | ✓ | | | | |
| | Secure Application | Radiology Audit Trail | ✓ | | | | |
| | Secure Node | Radiology Audit Trail | ✓ | | | | |
| Cardiology Evidence Documents (ED-CARD) | Image Manager/Archive | - | ✓ | | | | |
| Consistent Presentation of Images (CPI) | Image Display | - | | | ✓ | | |
| | Image Manager/Archive | - | ✓ | | | | |
| | Print Composer | - | | ✓ | | | |
| Consistent Time (CT) | Time Client | Secure NTP | ✓ | | | | |
| | Time Server | Secure NTP | ✓ | | | | |
| Cross-Enterprise Document Sharing (XDS.b) | Document Administrator | - | ✓ | | | | |
| | Document Consumer | - | | | ✓ | ✓ | |
| | Document Repository | - | ✓ | | | | |
| | Document Source | Asynchronous Web Services Exchange | | ✓ | | | |
| | | Document Replacement | | ✓ | | | |
| Embedded Document Source/Repository | Document Replacement | ✓ | | | | | |
| Cross-Enterprise Document Sharing for Imaging (XDS-I.b) | Imaging Document Consumer | - | | | ✓ | ✓ | |
| | Imaging Document Source | PDF Report | ✓ | | | | |
| | | Set of DICOM Instances | | ✓ | | | |
| | | CDA Wrapped Text Report | | ✓ | | | |
| Cross-Enterprise User Assertion (XUA) | X-Service User | Subject-Role | ✓ | | ✓ | ✓ | |
| | | PurposeOfUse | ✓ | | ✓ | ✓ | |
| Evidence Documents (ED) | Image Manager/Archive | - | ✓ | | | | |
| Imaging Object Change Management (IOCM) | Change Requestor | - | ✓ | | | | |
| | Image Manager/Archive | - | ✓ | | | | |

Table 1: Profiles...

| Integration Profiles Implemented | Actors Implemented | Options Implemented | syngo.share core | syngo.share import | syngo.share view | syngo.share webview |
|--|------------------------------------|---------------------|------------------|--------------------|------------------|---------------------|
| Import Reconciliation Workflow (IRWF.b) | Image Manager/Archive ¹ | - | ✓ | | | |
| | Importer | - | | ✓ | | |
| Key Image Note (KIN) | Image Display | - | | | ✓ | |
| | Image Manager/Archive | - | ✓ | | | |
| Mammography Image (MAMMO) | Image Manager/Archive | - | ✓ | | | |
| Nuclear Medicine Image (NMI) | Image Manager/Archive | - | ✓ | | | |
| Patient Administration Management (PAM) | Patient Demographics Consumer | Merge | ✓ | | | |
| | Patient Encounter Consumer | - | ✓ | | | |
| Patient Demographics Query (PDQ)/Patient Demographics Query HL7 V3 (PDQV3) | Patient Demographics Supplier | - | ✓ | | | |
| Patient Identifier Cross-Referencing (PIX) / Patient Identifier Cross-Referencing HL7 V3 (PIXV3) | Patient Identifier | - | | | ✓ | ✓ |
| | Cross-Reference Consumer | | | | | |
| | Patient Identity Source | - | ✓ | | | |
| Patient Information Reconciliation (PIR) | Image Manager/Archive | - | ✓ | | | |
| | Performed Procedure Step Manager | - | ✓ | | | |
| Portable Data for Imaging (PDI) | Image Display | - | | | ✓ | |
| | Portable Media Creator | DVD Media | | ✓ | | ✓ |
| | | USB Media for PDI | | ✓ | | ✓ |
| Portable Media Importer | DVD Media | | ✓ | | | |
| | USB Media for PDI | | | ✓ | | |
| Print Composer | | - | | ✓ | | |
| | Report Reader | - | | ✓ | | |
| Radiation Exposure Management (REM) ² | Image Manager/Archive | - | ✓ | | | |
| Scheduled Workflow.b (SWF.b) | Image Display | - | | | ✓ | |
| | Image Manager/Archive | - | ✓ | | | |
| | Performed Procedure Step Manager | - | ✓ | | | |
| Simple Image and Numeric Report (SINR) | Report Repository | - | ✓ | | | |

¹No connectathon test possible due to insufficient number of test partners.

²Profile implemented. Connectathon tests planned.

3 Actors and Profiles

Profiles are managed by different IHE Domains. The following tables show the profiles (and their acronyms) implemented and tested by ITH icoserve per domain:

- Profiles in Radiology (RAD)
- Profile in Cardiology (CARD)
- Profiles in IT Infrastructure (ITI)

Table 2: Profiles in Radiology (RAD)

| Acronym | Profile |
|---------|---|
| ARI | Access to Radiology Information |
| CPI | Consistent Presentation of Images |
| ED | Evidence Documents |
| IOCM | Imaging Object Change Management |
| IRWF.b | Import Reconciliation Workflow |
| KIN | Key Image Note |
| MAMMO | Mammography Image |
| NMI | Nuclear Medicine Image |
| PDI | Portable Data for Imaging |
| PIR | Patient Information Reconciliation |
| REM | Radiation Exposure Management |
| SINR | Simple Image and Numeric Report |
| SWF.b | Scheduled Workflow.b |
| XDS-I.b | Cross-Enterprise Document Sharing for Imaging |

Table 3: Profile in Cardiology (CARD)

| Acronym | Profile |
|---------|-------------------------------|
| ED-CARD | Cardiology Evidence Documents |

Table 4: Profiles in IT Infrastructure (ITI)

| Acronym | Profile |
|-----------|--|
| ATNA | Audit Trail and Node Authentication |
| CT | Consistent Time |
| PAM | Patient Administration Management |
| PDQm | Patient Demographics Query for Mobile |
| PDQ/PDQV3 | Patient Demographics Query/Patient Demographics Query HL7 V3 |
| PIX/PIXV3 | Patient Identifier Cross-Referencing/Patient Identifier Cross-Referencing HL7 V3 |
| XDS.b | Cross-Enterprise Document Sharing |
| XUA | Cross-Enterprise User Assertion |

3.1 Overview of Actors and Profiles *syngo.share core*

Table 5: Actors and Profiles *syngo.share core*

| Actors / Profiles | ARI | CPI | ED | IOCM | IRWF.b | KIN | MAMMO | NMI | PIR | REM | SINR | SWF.b | XDS-I.b | ED-CARD | ATNA | CT | PAM | PDQ/PDQV3 | PIX/PIXV3 | XDS.b | XUA |
|-------------------------------------|-----|-----|----|------|--------|-----|-------|-----|-----|-----|------|-------|---------|---------|------|----|-----|-----------|-----------|-------|-----|
| Audit Record Repository | | | | | | | | | | | | | | | | ✓ | | | | | |
| Change Requestor | | | | ✓ | | | | | | | | | | | | | | | | | |
| Document Administrator | | | | | | | | | | | | | | | | | | | | | ✓ |
| Document Repository | | | | | | | | | | | | | | | | | | | | | ✓ |
| Document Source | | | | | | | | | | | | | | | | | | | | | ✓ |
| Embedded Document Source/Repository | | | | | | | | | | | | | | | | | | | | | ✓ |
| Image Manager/Archive | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | | | | | | | |
| Imaging Document Source | | | | | | | | | | | | | ✓ | | | | | | | | |
| Patient Demographics Consumer | | | | | | | | | | | | | | | | | | ✓ | | | |
| Patient Demographics Supplier | | | | | | | | | | | | | | | | | | | ✓ | | |
| Patient Encounter Consumer | | | | | | | | | | | | | | | | | ✓ | ✓ | | | |
| Patient Identity Source | | | | | | | | | | | | | | | | | | | | ✓ | |
| Performed Procedure Step Manager | | | | | | | | | ✓ | | | ✓ | | | | | | | | | |
| Report Repository | ✓ | | | | | | | | | | ✓ | | | | | | | | | | |
| Secure Application | | | | | | | | | | | | | | | | | | ✓ | | | |
| Secure Node | | | | | | | | | | | | | | | | | | ✓ | | | |
| Time Client | | | | | | | | | | | | | | | | | | | | | ✓ |
| Time Server | | | | | | | | | | | | | | | | | | | | | ✓ |
| X-Service User | | | | | | | | | | | | | | | | | | | | | ✓ |

3.2 Overview of Actors and Profiles *syngo.share import*

Table 6: Actors and Profiles *syngo.share import*

| Actors / Profiles | CPI | IRWF.b | PDI |
|-------------------------|-----|--------|-----|
| Importer | | ✓ | |
| Portable Media Creator | | | ✓ |
| Portable Media Importer | | | ✓ |
| Print Composer | ✓ | | ✓ |
| Report Reader | | | ✓ |

3.3 Overview of Actors and Profiles *syngo.share view*

Table 7: Actors and Profiles *syngo.share* view

| Actors / Profiles | ARI | CPI | KIN | PDI | SWF.b | XDS-I.b | PIX/PIXV3 | XDS.b | XUA |
|---|-----|-----|-----|-----|-------|---------|-----------|-------|-----|
| Document Consumer | | | | | | | | ✓ | |
| Image Display | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| Imaging Document Consumer | | | | | | ✓ | | | |
| Patient Identifier Cross-Reference Consumer | | | | | | | ✓ | | |
| X-Service User | | | | | | | | | ✓ |

3.4 Overview of Actors and Profiles *syngo.share* webview

Table 8: Actors and Profiles *syngo.share* webview

| Actors / Profiles | PDI | XDS-I.b | PIX/PIXV3 | XDS.b | XUA |
|---|-----|---------|-----------|-------|-----|
| Document Consumer | | | | ✓ | |
| Imaging Document Consumer | | ✓ | | | |
| Patient Identifier Cross-Reference Consumer | | | ✓ | | |
| Patient Identity Source | | | ✓ | | |
| Portable Media Creator | ✓ | | | | |
| X-Service User | | | | | ✓ |

4 Further Information

Please find further information on the following topics online:

Vendor's Website

<https://www.ith-icoserve.com/en/products/>

Conformance Statements of the product line syngo.share (DICOM, HL7)

<https://www.ith-icoserve.com/en/products/certificates-and-standards/certificates-and-standards-details/>

General Information on IHE

North America: <https://www.ihe.net>

Europe: <https://www.ihe-europe.net>

Japan: <https://www.ihe-j.org/>

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