# IHE Integration Statement

# HealthSuite Interoperability 2021-1

**Issued by**
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# 1 Introduction

## 1.1 Overview

The Integrating the Healthcare Enterprise (IHE) Integration Statement specifies the Integration Profiles, its Actors, and Options Philips Healthcare has chosen for implementing in this product.
This document helps the reader to investigate whether and to what extent interoperability with other products might be supported.

The IHE Technical Framework identifies a subset of the functional components of the healthcare enterprise and specifies their interactions in terms of a set of coordinated transactions. The actors and transactions described in the IHE Technical Framework are abstractions of the real-world healthcare information system environment. While some of the transactions are traditionally performed by specific product categories (e.g. HIS, RIS, PACS, or modalities), the IHE Technical Framework intentionally avoids associating functions or actors with such product categories. For each actor, the IHE Technical Framework defines only those functions associated with integrating information systems. The IHE definition of an actor should therefore not be taken as the complete definition of any product that might implement it, nor should the framework itself be taken as the complete definition of a healthcare information system architecture.

This IHE Integration Statement provides the reader with a high-level view of supported IHE integration profiles. For further investigations, additional information can be found in the DICOM Conformance Statement of this product and in the IHE Technical Framework.

## 1.2 Important Note to the Reader

This IHE Integration Statement by itself does not guarantee successful interoperability of this Philips product with other products. The user (or user's agent) should be aware of the following issues:

**Interoperability**
Interoperability refers to the ability of application functions, distributed over two or more systems, to work successfully together. It is the user's responsibility to analyze thoroughly the application requirements and to specify a solution that integrates Philips equipment with non-Philips equipment.

**Verification**
Philips equipment has been carefully tested to ensure that the actual implementation of the IHE Integration Profiles corresponds with this Integration Statement.
Where Philips equipment is linked to other equipment, the first step is to compare the relevant Integration Statement. If the Integration Statement indicates that successful information exchange should be possible, additional verification tests will be necessary to ensure the functionality, performance, accuracy and stability of image and image related data. It is the responsibility of the user (or user's agent) to specify the appropriate test suite and to carry out the additional verification tests.

**New versions of the IHE Technical Framework**
The IHE Technical Framework will evolve in future to meet the user's growing requirements and to incorporate new features and technologies. Philips is actively involved in this evolution and plans to adapt its equipment to future versions of the IHE Technical Framework. In order to do so, Philips reserves the right to make changes to its products or to discontinue its delivery.
The user should ensure that any non-Philips provider linking to Philips equipment also adapts to future versions of the IHE Technical Framework. If not, the incorporation of IHE enhancements into Philips equipment may lead to loss of connectivity (in case of networking).

## 1.3 General Acronyms and Abbreviations

The following acronyms and abbreviations are used in the document.

- Actor    An entity within a use case that performs an action
- DICOM    Digital Imaging and Communication in Medicine
- HIS    Hospital Information System
- HL7    Health Level 7
- IHE    Integrating the Healthcare Enterprise
- PACS    Picture Archiving and Communication System
- RIS    Radiology Information System

## 2 IHE integration statement

**Version history:**

| Version: | Date of issue: | Description of change |
|---|---|---|
| 01 | 23-Apr-2021 | First release for HealthSuite Interoperability 2021-1 |

| Vendor | Product Name | Version |
|---|---|---|
| Philips Medical Systems | HealthSuite Interoperability | 2021-1 |

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|---|---|
| This product implements all the transactions required in the IHE Technical Framework to support the IHE Integration Profiles, Actors and Options listed below. | |

| Integration Profiles Implemented | Actors Implemented | Options Implemented |
|---|---|---|
| Consistent Time (CT) | Time Client (ITI-1) | None |
| Audit Trail and Node Authentication (ATNA) | Secure Node | None |
| | | Radiology Audit Trail |
| | | ATX: TLS Syslog |
| | | STX:TLS 1.2 Floor using BCP195 |
| | Secure Application (ITI-19, ITI-1, ITI-20) | None |
| | | Radiology Audit Trail |
| | | ATX: TLS Syslog |
| | | STX:TLS 1.2 Floor using BCP195 |
| | Audit Record Repository (ITI-20) | None |
| | | Retrieve Audit Message |
| | | ATX: TLS Syslog |
| | Audit Record Forwarder (ITI-20) | None |
| | | ATX: TLS Syslog |
| Retrieve ATNA Audit Event (ATNA) | Audit Record Repository (ITI-81) | None |
| Cross-Enterprise User Assertion (XUA) | X-Service-Provider (ITI-40) | None |
| | | Subject-Role |
| | | PurposeOfUse |
| | X-Service-User (ITI-40) | None |
| | | Subject-Role |
| | | PurposeOfUse |

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| | | None |
|---|---|---|
| Cross-Enterprise Document Sharing (XDS.b) | Document Consumer (ITI-18, ITI-43) | Basic Patient Privacy Enforcement |
| | | Basic Patient Privacy Proof |
| | | Document Metadata Update |
| | | On-Demand Documents |
| | | Delayed Document Assembly |
| | Document Source (ITI-41) | None |
| | | Document Addendum |
| | | Document Replacement |
| | | Document Transformation |
| | Document Administrator | Update Metadata (ITI-57) |
| | Document Repository (ITI-41, ITI-42, ITI-43) | None |
| | Document Registry (ITI-18, ITI-42) | None |
| | | Patient Identity Feed (ITI-8) |
| | | Document Metadata Update (ITI-57) |
| | | On-Demand Documents (ITI-61) |
| | | Delayed Document Assembly |
| | | Reference ID |
| Cross-Enterprise Document Sharing for Imaging (XDS-I.b) | Imaging Document Consumer (RAD-69) | None |
| | Document Registry | None |
| | Document Repository (RAD-68) | None |
| | Imaging Document Source (ITI-41, RAD-68) | None |
| | | Reference ID |
| | | Set of DICOM Instances (RAD-55, RAD-69) |
| | | PDF Report |
| | | CDA Wrapped Text Report |
| | | CDA Imaging Report with Structured Headings |
| Cross-Enterprise Document Reliable Interchange (XDR) | Document Source (ITI-41) | None |
| | Document Source (ITI-41) | Transmit Home Community ID |
| | Document Recipient (ITI-41) | Basic Patient Privacy Enforcement |
| | | Accepts Limited Metadata |
| Cross-Enterprise Document Sharing for Imaging (XDS-I) | Imaging Document Source (ITI-15) | Set of DICOM Instances |
| | | PDF Report |

| | | Text Report |
|---|---|---|
| | Imaging Document Consumer | WADO Retrieve (RAD-55) |
| Cross-Community Document Reliable Interchange (XCDR) | Initiating Gateway (ITI-80) | Basic Patient Privacy Enforcement |
| | Responding Gateway (ITI-80) | Basic Patient Privacy Enforcement |
| Enterprise User Authentication (EUA) | Client Authentication Agent (ITI-2, ITI-3, ITI-4) | None |
| | Kerberized Server (ITI-4) | None |
| Patient Demographics Query HL7 V3 (PDQV3) | Patient Demographics Supplier (ITI-47) | Continuation Option |
| | Patient Demographics Consumer (ITI-47) | None |
| Patient Demographics Query (PDQ) | Patient Demographics Supplier (ITI-21) | None |
| | Patient Demographics Consumer (ITI-21) | None |
| Patient Demographics Query for Mobile (PDQm) | Patient Demographics Supplier (ITI-78) | None |
| | Patient Demographics Consumer (ITI-22) | None |
| Patient Identifier Cross-Referencing (PIX) | Patient Identifier Cross-Reference Consumer (ITI-9) | None |
| Patient Identifier Cross-referencing for MPI (PIX) | Patient Identifier Cross-reference Manager (ITI-8, ITI-9) | None |
| Patient Identifier Cross-Referencing HL7 v3 (PIXV3) | Patient Identifier Cross-Reference Consumer (ITI-45) | None |
| Patient Identifier Cross-reference for Mobile (PIXm) | Patient Identifier Cross-reference Manager (ITI-83) | None |
| Patient Administration Management (PAM) | Patient Demographics Consumer (ITI-30) | None |
| | Patient Encounter Consumer (ITI-31) | None |
| | Patient Demographics Consumer (ITI-30) | Merge |
| | | Link / Unlink |
| Cross Community Access (XCA) | Initiating Gateway (ITI-38, ITI-39) | XDS Affinity Domain (ITI-18, ITI-43) |
| | | On-Demand Documents |
| | Responding Gateway (ITI-38, ITI-39) | On-Demand Documents |
| | | Asynchronous Web Services Exchange (WS-Addressing based) |
| | | Basic Patient Privacy Enforcement |
| Cross Community Access for Imaging (XCA-I) | Initiating Imaging Gateway (RAD-69, RAD-75) | None |
| | Responding Imaging Gateway (RAD-69, RAD-75) | None |

| | Imaging Document Consumer (RAD-69) | None |
|---|---|---|
| Cross Community Patient Discovery (XCPD) | Initiating Gateway (ITI-55) | None |
| | Responding Gateway (ITI-55) | None |
| | | Asynchronous Web Services Exchange (WS-Addressing based) |
| Basic Patient Privacy Consents (BPPC) | Content Creator | None |
| | | Basic Patient Privacy Acknowledgement |
| | | Basic Patient Privacy Acknowledgement with Scanned Document |
| | Content Consumer | Basic Patient Privacy Acknowledgement View |
| Scanned Documents (XDS-SD) | Content Creator | None |
| | Content Consumer | View Option |
| Cross-Enterprise Document Workflow Profile (XDW) | Content Creator | None |
| | | XDW Cross-Community with XDR |
| | Content Consumer | Document Import Option |
| | | View Option |
| | Content Updater | Document Import Option |
| | | XDW Cross-Community with XDR |
| | | View Option |
| Cross Enterprise Basic eReferral Workflow Definition Profile (XBeR-WD) | Referral Requester | None |
| | Referral Scheduler | None |
| | Referral Performer | Process without Scheduling Phase Option |
| Remove Metadata and Documents (RMD) | Document Registry (ITI-18, ITI-62) | None |
| | Document Repository (ITI-86) | None |
| | Document Administrator (ITI-18, ITI-62) | Remote Registry Option |
| Multi-Patient Queries (MPQ) | Document Registry (ITI-51) | None |
| | Document Consumer (ITI-51) | None |
| Document Metadata Subscription (DSUB) | Document Metadata Notification Broker (ITI-52, ITI-53) | Document Metadata Publish Recipient (ITI-54) |
| | Document Metadata Notification Recipient (ITI-53) | None |
| | Document Metadata (Notification) Subscriber (ITI-52) | None |

| | Document Metadata Publisher (ITI-54) | None |
|---|---|---|
| Portable Data for Imaging (PDI) | Portable Media Creator (RAD-47) | USB Media Option |
| Cross-Enterprise Sharing of Medical Summaries (XDS-MS) | Content Creator | Referral Option |
| | Content Consumer | View Option |
| Sharing Laboratory Reports (XDLAB) | Content Consumer | View Option |
| Cardiac Imaging Report Content (CIRC) | Content Consumer | View Option |
| Antepartum Education (APE) | Content Consumer | View Option |
| Antepartum Health and Physical (APHP) | Content Consumer | View Option |
| Antepartum Record Profile (APR) | Content Consumer | View Option |
| Antepartum Summary (APS) | Content Consumer | View Option |
| Antepartum Laboratory (APL) | Content Consumer | View Option |
| Composite Triage and Nursing Note (CTNN) | Content Consumer | View Option |
| Emergency Department Encounter Summary (EDES) | Content Consumer | View Option |
| Emergency Department Physician Note (EDPN) | Content Consumer | View Option |
| Early Hearing Care Plan (EHCP) | Content Consumer | View Option |
| Emergency Department Referral (EDR) | Content Consumer | View Option |
| Healthy Weight (HW) | Content Consumer | View Option |
| Labor and Delivery History and Physical (LDHP) | Content Consumer | View Option |
| Labor and Delivery Summary (LDS) | Content Consumer | View Option |
| Immunization Content (IC) | Content Consumer | View Option |
| Newborn Discharge Summary (NDS) | Content Consumer | View Option |
| Nursing Note (NN) | Content Consumer | View Option |
| Patient Plan of Care (PPOC) | Content Consumer | View Option |
| Postpartum Visit Summary (PPVS) | Content Consumer | View Option |
| Triage Note (TN) | Content Consumer | View Option |
| Exchange of Personal Health Record Content (XPHR) | Content Consumer | View Option |
| Pharmacy Dispense (DIS) | Content Consumer | View Option |
| Pharmacy Prescription (PRE) | Content Consumer | View Option |
| Pharmacy Pharmaceutical Advice (PADV) | Content Consumer | View Option |
| Vital Records Death Reporting (VRDR) | Content Consumer | View Option |
| Physician Reporting to Public Health Repository - Cancer Registry (PRPHCa) | Content Consumer | View Option |

| Cross Enterprise Tumor Board Workflow Definition (XTB-WD) | TBR Requestor | Workflow Input and Output |
|---|---|---|
| | TBR Scheduler | Workflow Input and Output |
| | TBR Preparer | Workflow Input and Output |
| | TBR Report Writer | Workflow Input and Output |
| | TBR Finalizer | Workflow Input and Output |
| Mobile access to Health Documents (MHD) | Document Responder (ITI-66, ITI-67, ITI-68) | None |
| | Document Recipient (ITI-65) | None |
| | Document Consumer | None |
| Scheduled Workflow.b | Performed Procedure Step Manager (RAD-6, RAD-7) | None |
| | Department System Scheduler/Order Filler (RAD-1, RAD-2, RAD-3, RAD-4, RAD-5, RAD-6, RAD-7,  RAD-12, RAD-13) | None |
| Device Enterprise Communication | Device Observation Consumer | None |
| | | Subscribe to PCD Data |
| C-CDA 2.1 Document Consumers | Content Consumer | |

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