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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, the product eHealth Solutions is tested periodically at IHE Connectathons to confirm the compliance with current IHE Integration Profiles.

Vendor

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Product Name

eHealth Solutions

Version

VA60A_260115

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



Note

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

2 Profiles

2.1 IHE Profiles

Table 1: IHE Profiles

Integration Profiles Implemented	Actors Implemented	Options Implemented
Advanced Patient Privacy Consents (APPC)	Content Creator	-
	Content Consumer	Structured Policy Processing Option
Audit Trail and Node Authentication (ATNA)	Audit Record Repository	-
	Secure Node	-
	Secure Application	-
Basic Patient Privacy Consents (BPPC)	Document Creator	Basic Patient Privacy Enforcement
Consistent Time (CT)	Time Server	Secure NTP
	Time Client	Secure NTP
		SNTP (Simple NTP)
Cross-Community Access (XCA)	Initiating Gateway	Asynchronous Web Service Exchange
		On-Demand Documents
		XDS Affinity Domain
	Responding Gateway	On-Demand Documents
Cross-Community Access for Imaging (XCA-I)	Imaging Document Consumer	-
	Imaging Document Source	-
	Initiating Imaging Gateway	Asynchronous Web Services Exchange
	Responding Imaging Gateway	-
Cross-Community Fetch (XCF)	Initiating Gateway	-
	Responding Gateway	-
Cross-Community Patient Discovery (XCPD)	Initiating Gateway	Asynchronous Web Services Exchange
	Responding Gateway	-
Cross-Enterprise Document Media Interchange (XDM)	Portable Media Creator	USB Document Storage
		CDR Document Storage
		ZIP file sent over email
	Portable Media Importer	USB Document Storage
		CDR Document Storage
Cross-Enterprise Document Reliable Interchange (XDR)	Document Source	Multiple Document Submission
		Transmit Home Community ID
	Document Recipient	-
Cross-Enterprise Document Reliable Interchange for Images (XDR-I)	Imaging Document Source	Sharing of DICOM SOP Instance
	Imaging Document Recipient	Sharing of DICOM SOP Instance
Cross-Enterprise Document Sharing (XDS.b)	Document Administrator	Update Metadata

Table 1: IHE Profiles 

Table 1: IHE Profiles 

Integration Profiles Implemented	Actors Implemented	Options Implemented	
	Document Consumer	Delete Metadata	
		On-Demand Documents	
	Document Registry	Document Metadata Update	
		Patient Identity Feed (HL7V2/HL7V3)	
		On-Demand Documents	
		Document Metadata Update	
	Document Repository	Reference ID	
		-	
	Document Source	Asynchronous Web Services Exchange	
			Document Replacement
		Document Addendum	
		Document Transformation	
		Folder Management	
On-Demand Document Source		-	
	Embedded Document Source/Repository	Document Replacement	
		Document Addendum	
		Document Transformation	
		Folder Management	
	Patient Identity Source	Patient Identity Feed (HL7V2/HL7V3)	
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	
	Further XDS-I.b actors are listed in the integration profile XDS.b.		
	Cross-Enterprise Sharing of Scanned Documents (XDS-SD)	Content Creator	-
		Content Consumer	View Option
	Cross-Enterprise User Assertion (XUA)/ Cross-Enterprise User Assertion Attribute Extension (XUA++)	X-Service Provider	Subject-Role
PurposeOfUse			
X-Service User		Subject-Role	
		PurposeOfUse	
Cross-Enterprise Workflow (XDW)	Content Creator	Document Import Option	
		XDW Cross-Community with XDR	
	Content Updater	XDW Cross-Community with XDR	
	Content Consumer	View Option	
Document Digital Signature (DSG)	Content Consumer	Detached Signature	
	Content Creator	Detached Signature	
Document Metadata Subscription (DSUB)	Document Metadata Publisher	-	
	Document Metadata Subscriber	-	
	Document Metadata Notification Broker	Folder Subscription	
		Document Metatdata Publish Recipient	

Table 1: IHE Profiles 

Table 1: IHE Profiles 

Integration Profiles Implemented	Actors Implemented	Options Implemented
	Notification Puller	-
	Document Metadata Notification Recipient	-
Document Metadata Update (XDS MU)	Document Consumer	-
	Document Registry	-
	Document Administrator	-
Healthcare Provider Directory (HPD)	Provider Information Consumer	-
	Provider Information Directory	Provider Information Feed Federation
	Provider Information Source	-
Internet User Authorization (IUA)	Authorization Client	OAuth Bearer Token
		SAML Token
	Authorization Server	OAuth Bearer Token
		SAML Token
	Resource Server	OAuth Bearer Token
		SAML Token
Mobile Access to Health Documents (MHD)	Document Consumer	-
	Document Recipient	-
	Document Responder	-
	Document Source	-
Multi-Patient Queries (MPQ)	Document Consumer	-
	Document Registry	-
Patient Administration Management (PAM)	Patient Demographics Consumer	Merge
	Patient Demographics Supplier	-
	Patient Encounter Consumer	-
	Patient Encounter Supplier	-
Patient Demographics Query (PDQ)/ Patient Demographics Query HL7 V3 (PDQV3)	Patient Demographics Consumer	-
	Patient Demographics Supplier	Continuation Option (PDQV3)
Patient Demographics Query for Mobile (PDQm)	Patient Demographics Consumer	-
	Patient Demographics Supplier	-
Patient Identifier Cross-Referencing (PIX)/ Patient Identifier Cross-Referencing HL7 V3 (PIXV3)	Patient Identifier Cross-Reference Consumer	-
	Patient Identity Source	-
	Patient Identifier Cross-Reference Manager	PIX(V3) Update Notification
Patient Identifier Cross-Referencing for Mobile (PIXm)	Patient Identifier Cross-Reference Consumer	-
	Patient Identity Cross-Reference Manager	-
Remove Metadata and Documents (RMD)	Document Administrator	Remote Repository
		Remote Registry

Table 1: IHE Profiles 

Table 1: IHE Profiles 

Integration Profiles Implemented	Actors Implemented	Options Implemented
	Document Registry	-
	Document Repository	-
Restricted Metadata Update (RMU)	Update Initiator	-
	Update Responder	-
Retrieve Form for Data Capture (RFD)	Form Archiver	-
	Form Filler	Archive Form
	Form Processor	-
Sharing Value Set (SVS)	Value Set Consumer	HTTP Binding
		SOAP Binding
		Retrieve Multiple Value Sets
	Value Set Repository	Retrieve Multiple Value Sets
XAD-PID Change Management (XPID)	Document Registry	-
	Patient Identity Cross-Reference Manager	-

2.2 Profiles for EPD (Switzerland)

Table 2: Profiles for EPD

Profile	Description	Actors	Options
CH:ADR	Authorization Decision Request	Authorization Decision Consumer	-
		Authorization Decision Provider	-
CH:ATC	Audit Trail Consumption	Patient Audit Consumer	-
		Patient Audit Record Repository	-
CH:ATNA	Audit Trail and Node Authentication	Audit Record Repository	-
		Secure Node	-
		Secure Application	-
CH:CPI	Community Portal Index	Community Portal Index Consumer	-
CH:CT	Consistent Time	Time Server	Secure NTP
		Time Client	Secure NTP
			SNTP (Simple NTP)
CH:HPD	Healthcare Provider Directory	Provider Information Consumer	-
		Provider Information Category	Provider Information Feed Federation
		Provider Information Source	-
CH:PDQV3	Patient Demographics Query	Patient Demographics Consumer	Merge
		Patient Demographics Supplier	Continuation Option (PDQV3)

Table 2: Profiles for EPD 

Table 2: Profiles for EPD 

Profile	Description	Actors	Options
CH:PIXV3	Patient Identifier Cross-Referencing HL7 V3	Patient Identifier Cross-Reference Consumer	-
		Patient Identify Source	-
		Patient Identifier Cross-Reference Manager	PIX(V3) Update Notification
CH:PPQ	Privacy Policy Query	Policy Consumer	-
		Policy Source	-
		Policy Repository	-
CH:XPDC	Cross-Community Patient Discovery	Initiating Gateway	Asynchronous Web Services Exchange
		Responding Gateway	-
CH:XUA	Cross-Enterprise User Assertion	X-Service Provider	Subject-Role
			PurposeOfUse
		X-Service User	Subject-Role
			PurposeOfUse
		X-Assertion Provider	-

3 Actors and Profiles

Profiles are managed by different IHE Domains. The following tables show the profiles (and their acronyms) covered by eHealth Solutions per domain.

Table 3: Radiology Profiles

Acronym	Profile
XCA-I	Cross-Community Access for Imaging
XDS-I.b	Cross-Enterprise Document Sharing for Imaging

Table 4: National Integration Profiles

Acronym	Profile
ADR	Authorization Decision Request
ATC	Audit Trail Consumption
CPI	Community Portal Index
PPQ	Privacy Policy Query

Table 5: IT Infrastructure Profiles

Acronym	Profile
APPC	Advanced Patient Privacy Consents
ATNA	Audit Trail and Node Authentication
BPPC	Basic Patient Privacy Consents
CT	Consistent Time
DSG	Document Digital Signature
DSUB	Document Metadata Subscription
HPD	Healthcare Provider Directory
IUA	Internet User Authorization
MHD	Mobile Access to Health Documents
MPQ	Multi-Patient Queries
PAM	Patient Administration Management
PDQ/PDQV3	Patient Demographics Query/Patient Demographics Query HL7 V3
PDQm	Patient Demographics Query for Mobile
PIX/PIXV3	Patient Identifier Cross-Referencing/Patient Identifier Cross-Referencing HL7 V3
PIXm	Patient Identifier Cross-Referencing for Mobile (PIXm)
RFD	Retrieve Form for Data Capture
RMD	Remove Metadata and Documents
RMU	Restricted Metadata Update (RMU)
SVS	Sharing Value Sets
XCA	Cross-Community Access
XCF	Cross Community Fetch
XCPD	Cross-Community Patient Discovery
XDM	Cross-enterprise Document Media Interchange
XDR	Cross-enterprise Document Reliable Interchange
XDR-I	Cross-Enterprise Reliable Document Interchange for Imaging

Table 5: IT Infrastructure Profiles 

Acronym	Profile
XDS.b	Cross-Enterprise Document Sharing
XDS MU	Document Metadata Update
XDS-SD	Cross-enterprise Sharing of Scanned Documents
XDW	Cross Enterprise Workflow
XPID	
XUA/XUA++	Cross-Enterprise User Assertion

3.1 Actors and Profiles in Radiology

Table 6: Actors and Profiles in Radiology - Overview

Actors / Profiles	XCA-I	XDS-I.b
Imaging Document Consumer	✓	✓
Imaging Document Source	✓	✓
Initiating Imaging Gateway	✓	
Responding Imaging Gateway	✓	

3.2 Actors and Profiles in National Integration

Table 7: Actors and Profiles in National Integration - Overview

Actors / Profiles	ADR	ATC	CPI	PPQ
Authorization Decision Consumer	✓			
Authorization Decision Provider	✓			
Community Portal Index Consumer			✓	
Patient Audit Consumer		✓		
Patient Audit Record Repository		✓		
Policy Consumer				✓
Policy Repository				✓
Policy Source				✓

3.3 Actors and Profiles in IT Infrastructure

Note that the information is split in two parts:

- Profiles A - P, see [Table 8](#)
- Profiles R - T, see [Table 9](#)

Table 8: Actors and Profiles in IT Infrastructure - Overview (1/2)

Actors / Profiles	APPC	ATNA	BPPC	CT	DSG	DSUB	HPD	IUA	MHD	MPQ	PAM	PDQ/PDQV3	PDQm	PIX/PIXV3	PIXm
Audit Record Repository		✓													
Authorization Client								✓							
Authorization Server								✓							
Content Consumer	✓				✓										
Content Creator	✓				✓										
Content Updater															
Document Administrator															
Document Consumer									✓	✓					
Document Creator			✓												
Document Metadata Publisher						✓									
Document Metadata Subscriber						✓									
Document Metadata Notification Broker						✓									
Document Metadata Notification Recipient						✓									
Document Recipient									✓						
Document Registry										✓					
Document Repository															
Document Responder									✓						
Document Source									✓						
Embedded Document Source/Repository															
Form Archiver															
Form Filler															
Form Processor															
Imaging Document Recipient															
Imaging Document Source															
Initiating Gateway															
Notification Puller						✓									
On-Demand Document Source															
Patient Demographics Consumer											✓	✓	✓		
Patient Demographics Supplier											✓	✓	✓		
Patient Encounter Consumer											✓				
Patient Encounter Supplier											✓				
Patient Identifier Cross-Reference Consumer														✓	✓
Patient Identifier Cross-Reference Manager														✓	✓
Patient Identity Source														✓	
Portable Media Creator															
Portable Media Importer															
Provider Information Consumer							✓								
Provider Information Directory							✓								
Provider Information Source							✓								
Resource Server								✓							
Responding Gateway															
Secure Application		✓													
Secure Node		✓													
Structured Policy Processing Option	✓														

Table 8: Actors and Profiles in IT Infrastructure - Overview (1/2) 

Table 8: Actors and Profiles in IT Infrastructure - Overview (1/2) 

Actors / Profiles	APPC	ATNA	BPPC	CT	DSG	DSUB	HPD	IUA	MHD	MPQ	PAM	PDQ/PDQV3	PDQm	PIX/PIXV3	PIXm
Time Client				✓											
Time Server				✓											
Update Initiator															
Update Responder															
User Authentication Provider															
Value Set Consumer															
Value Set Repository															
X-Assertion Provider															
X-Service Provider															
X-Service User															

Table 9: Actors and Profiles in IT Infrastructure - Overview (2/2)

Actors / Profiles	RFD	RMD	RMU	SVS	XCA	XCF	XCPD	XDM	XDR	XDR-I	XDS.b	XDS.MU	XDS-SD	XDW	XPID	XUA/XUA++
Audit Record Repository																
Authorization Client																
Authorization Server																
Content Consumer													✓	✓		
Content Creator													✓	✓		
Content Updater														✓		
Document Administrator		✓									✓	✓				
Document Consumer											✓	✓				
Document Creator																
Document Metadata Publisher																
Document Metadata Subscriber																
Document Metadata Notification Broker																
Document Metadata Notification Recipient																
Document Recipient									✓							
Document Registry		✓									✓	✓			✓	
Document Repository		✓									✓					
Document Responder																
Document Source									✓		✓					
Embedded Document Source/Repository											✓					
Form Archiver	✓															
Form Filler	✓															
Form Processor	✓															
Imaging Document Recipient										✓						
Imaging Document Source										✓						
Initiating Gateway					✓	✓	✓									
Notification Puller																
On-Demand Document Source											✓					
Patient Demographics Consumer																

Table 9: Actors and Profiles in IT Infrastructure - Overview (2/2) 

Table 9: Actors and Profiles in IT Infrastructure - Overview (2/2) 

Actors / Profiles	RFD	RMD	RMU	SVS	XCA	XCF	XCPD	XDM	XDR	XDR-I	XDS.b	XDS MU	XDS-SD	XDW	XPID	XUA/XUA++
Patient Demographics Supplier																
Patient Encounter Consumer																
Patient Encounter Supplier																
Patient Identifier Cross-Reference Consumer																
Patient Identifier Cross-Reference Manager															✓	
Patient Identity Source												✓				
Portable Media Creator								✓								
Portable Media Importer								✓								
Provider Information Consumer																
Provider Information Directory																
Provider Information Source																
Resource Server																
Responding Gateway					✓	✓	✓									
Secure Application																
Secure Node																
Structured Policy Processing Option																
Time Client																
Time Server																
Update Initiator			✓													
Update Responder			✓													
User Authentication Provider																✓
Value Set Consumer				✓												
Value Set Repository				✓												
X-Assertion Provider																✓
X-Service Provider																✓
X-Service User																✓

4 Further Information

Please find further information on the following topics online:

Vendor's Website

[ITH icoserve technology for healthcare GmbH](#)

Conformance Statements for eHealth Solutions

[HL7 and DICOM Conformance Statements](#)

General Information on IHE

[IHE North America](#)

[IHE Europe](#)

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