**Integrating the Healthcare Enterprise**



**IHE <Domain Name> (<Domain Acronym>)**

**Technical Framework**

**Volume 2**

**IHE <Domain Acronym> TF-2**

**Transactions**

**Revision <x.0> - Final Text**

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**Please verify you have the most recent version of this document,** which is published [here](http://www.ihe.net/Technical_Frameworks/).

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To maintain consistency across domains, the format and structure (order) of this document (of any Technical Framework document) must not be changed or altered in any way.

Use of capitalization: Please follow standard English grammar rules – only proper nouns and names are upper case. For example, “Modality Actor” is upper case, but “an actor which fulfills the role of a modality” is lower case. Do not use upper case to emphasize a word/topic.>

<Additional guidance is available on the IHE Wiki at <http://wiki.ihe.net/index.php?title=Writing_Technical_Frameworks_and_Supplements>. This guidance is especially useful for first time authors.>

# Introduction

This document, Volume 2 of the IHE <Domain Name> (<Domain Acronym>) Technical Framework, defines transactions used in IHE <Domain Name> profiles.

## Introduction to IHE

Integrating the Healthcare Enterprise (IHE) is an international initiative to promote the use of standards to achieve interoperability among health information technology (HIT) systems and effective use of electronic health records (EHRs). IHE provides a forum for care providers, HIT experts and other stakeholders in several clinical and operational domains to reach consensus on standards-based solutions to critical interoperability issues.

The primary output of IHE is system implementation guides, called IHE Profiles. IHE publishes each profile through a well-defined process of public review and trial implementation and gathers profiles that have reached final text status into an IHE Technical Framework, of which this volume is a part.

For more general information regarding IHE, refer to [www.ihe.net](http://www.ihe.net). It is strongly recommended that, prior to reading this volume, the reader familiarizes themselves with the concepts defined in the [*IHE Technical Frameworks General Introduction*](http://ihe.net/Technical_Frameworks/#GenIntro).

## Intended Audience

The intended audience of IHE Technical Frameworks Volume 2 is:

* IT departments of healthcare institutions
* Technical staff of vendors participating in the IHE initiative
* Experts involved in standards development

## Overview of Technical Framework Volume 2

Volume 2 is comprised of several distinct sections:

* Section 1 provides background and reference material.
* Section 2 presents the conventions used in this volume to define the transactions.
* Section 3 defines <Domain Name> transactions in detail, specifying the roles for each actor, the standards employed, the information exchanged, and in some cases, implementation options for the transaction.

The appendices in Volume 2 provide clarification of technical details of the IHE data model and transactions. A glossary of terms and acronyms used in the IHE Technical Framework, including those from relevant standards, is provided in [Appendix D](http://ihe.net/Technical_Frameworks/#GenIntro) to the *IHE Technical Frameworks General Introduction*. Due to the length of the document, some domains may divide Volume 2 into smaller volumes labeled 2a, 2b, etc. In this case, the Volume 2 appendices are gathered in Volume 2x. Code and message samples may also be stored on the IHE ftp server at [ftp://ftp.ihe.net/TF\_Implementation\_Material](ftp://ftp.ihe.net/TF_Implementation_Material/). In this case, explicit links to the ftp server will be provided in the transaction text.

## Comment Process

IHE International welcomes comments on this document and the IHE initiative. Comments on the IHE initiative can be submitted by sending an email to the co-chairs and secretary of the <Domain Name> domain committees at <Domain Acronym>@ihe.net. Comments on this document can be submitted at <http://ihe.net/Domain_acronym_Public_Comments>.

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## History of Document Changes

This section provides a brief summary of changes and additions to this document.

*<The author/technical committee will complete the Change Summary column each time that the document is re-published as Final Text. The IHE Documentation Specialist will complete the Date and Document Revision columns.>*

| Date | Document Revision | Change Summary |
| --- | --- | --- |
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# Conventions

This document has adopted the following conventions for representing the framework concepts and specifying how the standards upon which the IHE Technical Framework is based shall be applied.

## Transaction Modeling and Profiling Conventions

In order to maintain consistent documentation methods, modeling methods for IHE transactions and profiling conventions for frequently used standards are maintained as [Appendix E](http://ihe.net/Technical_Frameworks/" \l "GenIntro) to the *IHE Technical Frameworks General Introduction*. Methods described include the Unified Modeling Language (UML) and standards conventions include DICOM, HL7 v2.x, HL7 Clinical Document Architecture (CDA) Documents, etc. These conventions are critical to understanding this volume and should be reviewed prior to reading this text.

## Additional Standards Profiling Conventions

This section defines profiling conventions for standards which are not described in the *IHE Technical Frameworks General Introduction*.

*<Add any profiling conventions for standards which are used in this domain’s Volume 2, but not documented in the IHE Technical Framework General Introduction Appendix on Profiling Conventions. If unneeded, state “Not Applicable”.>*

## Use of Coded Entities and Coding Schemes

Where applicable, coding schemes required by the DICOM, HL7, LOINC, and SNOMED standards are used in IHE Profiles. In the cases where such resources are not explicitly identified by standards, implementations may utilize any resource (including proprietary or local) provided any licensing/copyright requirements are satisfied.

IHE does produce and maintain certain terminology. OIDs and URNs have been assigned for specific uses. The IHE process for managing OIDs and URNs is described at <http://wiki.ihe.net/index.php/OID_Registration>.

# IHE Transactions

This section defines each IHE <Domain Name> transaction in detail, specifying the standards used and the information transferred.

## <Transaction Name> [<Domain Acronym>-1]

*<The content of Section 3 comes directly from the text of the* [*Technical Framework Supplement template*](ftp://ftp.ihe.net/DocumentPublication/DocumentTemplates/Technical_Framework_Supplement_Template/)*.>*

*<When a supplement reaches Final Text status, insert its transactions here. Each transaction gets a sub-section in Section 3 (i.e., <Domain Acronym>-1 is in 3.1, <Domain Acronym-2> is in 3.2). When a transaction is retired, the section should remain and only contain a statement that the transaction has been retired. Some domains reserve section/transaction numbers (but do not include the transaction text here yet) when a supplement is released for Trial Implementation for editorial convenience and to provide continuity for implementers.>*

Appendices

*<This appendices section is used for appendices specific to Volume 2>*

*<Use appendices to include large amounts of material which would disrupt the flow or readability of the general text.>*

*<Each appendix should very explicitly state at the beginning whether the appendix is normative or informative.>*

*<Important Note: Snippets of code samples can be located in an appendix. However, complete code samples or messages should be submitted as separate files and stored on the IHE ftp server at:* [*ftp://ftp.ihe.net/TF\_Implementation\_Material/<Domain*](ftp://ftp.ihe.net/TF_Implementation_Material/%3cDomain) *Acronym.>*

*<Also note that if appendices become too large, they can be migrated to a Volume 2x for that domain. If Volume 2 is split into a Volume 2a, 2b, etc., then appendices* ***must*** *be migrated to a Volume 2x for consistency. If there is only a single Volume 2 for a domain, it is up to the domain’s discretion to begin a Volume 2x immediately or wait until necessary.>*

# Appendix A – <Appendix Title>

Appendix A text.

## A.1 <Title>

Appendix A.1 text.

### A.1.1 <Title>

Appendix A.1.1 text.

# Appendix B – <Appendix Title>

Appendix B text.

## B.1 <Title>

Appendix B.1 text.

### B.1.1 <Title>

Appendix B.1.1 text.

# Glossary

IHE Glossary terms are maintained via the [*Standards Knowledge Management Tool*](http://www.skmtglossary.org/) (SKMT).

SKMT contains IHE Glossary Terms from Final Text and Trial Implementation IHE profiles. Terms from Public Comment profiles are added once the profile is published for Trial Implementation.

The current published version of the IHE Glossary ([Appendix D](https://www.ihe.net/resources/technical_frameworks/#GenIntro) to the *IHE Technical Frameworks General Introduction*) contains IHE Glossary terms as of the publication date of the document. Always refer to the [SKMT](http://www.skmtglossary.org/) for the most up-to-date list of IHE Glossary terms.

Further information about SKMT can be found on the IHE Wiki [here](https://wiki.ihe.net/index.php/Standards_Knowledge_Management_Tool_(SKMT)).