**Integrating the Healthcare Enterprise**



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

**Technical Framework**

**Volume 3**

**<Domain Acronym> TF-3**

**Content Modules**

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

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*<Authors’ instructions:*

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*All Technical Frameworks must be published by the IHE Document Publication specialist, not by individual domains. Technical Frameworks are scheduled in advance for publication on an annual basis as part of the regular publication scheduling process by the domain co-chair.*

*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 3 of the IHE <Domain Name> (<Domain Acronym>) Technical Framework, defines content modules used in the 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 3 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 3

Volume 3 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 content modules.
* Section 3 provides an overview of Content Modules and the terminology used.
* Section 4 is reserved for domain unique Content Module specifications.
* Section 5 lists the namespaces and identifiers defined or referenced and the vocabularies defined or referenced herein.
* Section 6 defines <this domain’s> HL7 V3 CDA Content Modules in detail.
* Section 7 defines <this domain’s> DICOM content modules.
* Section 8 defines other types of content modules.

The appendices in Volume 3 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 3 into smaller volumes labeled 3a, 3b, etc. In this case, the Volume 3 appendices are gathered in Volume 3x. Code and message samples may also be stored on the IHE ftp server. 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. They can be submitted by sending an email to the co-chairs and secretary of the <domain name> domain committees at <Domain Acronym>@ihe.net.

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DICOM® is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information.

#### HL7 (Health Level Seven)

*<Please refer to the Fast Healthcare Interoperability Resources as the "HL7® FHIR® standard".>*

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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 republished 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.

## Content Module Modeling and Profiling Conventions

In order to maintain consistent documentation, modeling methods for IHE content modules and profiling conventions, for frequently used standards, are maintained as [Appendix E](http://ihe.net/Technical_Frameworks/#GenIntro) to the *IHE* Technical Frameworks General Introduction. Methods described include the standards conventions 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](http://ihe.net/Technical_Frameworks/#GenIntro).

*<Add any profiling conventions for standards which are used in this domain’s Volume 3, but not documented in the IHE Technical Framework General Introduction Appendix on Profiling Conventions. If this section is unneeded, state “Not Applicable”.>*

# Content Modules Overview and Terminology

In the future, an appendix to the *IHE Technical Frameworks General Introduction* will provide and an overview of Content Modules. In the interim, information may be available on the IHE wiki at <http://wiki.ihe.net/index.php?title=Profiles>

# <Reserved for domain specific content>

<Include text “Intentionally left blank.” if not used. As an example, PCC uses this section for Bindings and ITI uses this section for XDS metadata descriptions.>

# IHE Namespaces, Concept Domains, and Vocabularies

This section references the namespaces, concept domains, and identifiers defined or referenced by the IHE <Domain Acronym> Technical Framework, and the vocabularies defined or referenced herein.

## IHE <Domain Name> Namespaces

For a listing of the <Domain Acronym> Namespaces, see <http://wiki.ihe.net/index.php/OID_Registration#IHE_Domain_Namespaces>

## IHE <Domain Name> Concept Domains

Concept Domains are named categories of things that are used when it isn’t possible to bind to a specific set of codes. There are a number of reasons you might not be able to define and bind to a specific set of codes, one of the most common being that the codes set needs to vary depending on locale or context.

For a listing of the <Domain Acronym> Concept Domains see <enter location the domains Concept Domains or NA if none>

## IHE <Domain Name> Format Codes and Vocablaries

The following vocabularies are referenced in the IHE <Domain Abbreviation> Technical Framework. An extensive list of registered vocabularies can be found at <http://hl7.amg-hq.net/oid/frames.cfm>.

### IHE Format Codes

For IHE Format Codes please see the IHE Format Codes wiki page at <http://wiki.ihe.net/index.php/IHE_Format_Codes>.

### IHEActCode Vocabulary

* CCD ASTM/HL7 Continuity of Care Document
* CCR ASTM CCR Implementation Guide

The IHEActCode vocabulary is a small vocabulary of clinical acts that are not presently supported by the HL7 ActCode vocabulary. The root namespace (OID) for this vocabulary is 1.3.5.1.4.1.19376.1.5.3.2. These vocabulary terms are based on the vocabulary and concepts used in the CCR and CCD standards listed above.

Please see the IHEActCode Vocabulary at <http://wiki.ihe.net/index.php/IHEActCode_Vocabulary>.

### IHERoleCode Vocabulary

The IHERoleCode vocabulary is a small vocabulary of role codes that are not presently supported by the HL7 Role Code vocabulary. The root namespace (OID) for this vocabulary is 1.3.5.1.4.1.19376.1.5.3.3.

Please see the IHERoleCode Vocabulary at <http://wiki.ihe.net/index.php/IHERoleCode_Vocabulary>

# <Domain Acronym> HL7 V3 CDA Content Modules

## Conventions

HL7 V3 CDA Conventions are defined in [Appendix E](http://ihe.net/Technical_Frameworks/#GenIntro) to the *IHE Technical Frameworks General Introduction*.

## Folder Modules

*<This is a placeholder. If this domain is not using folders, include “NA”>*

## Content Modules

This section defines each IHE <Domain Name> Content Modules in detail, specifying the standards used and the information defined.

*<The content of Section 6.3 comes directly from the text of the Technical Framework Supplement template.>*

*<When a supplement reaches Final Text status, insert its content modules here. Each content gets a sub-section in Section 6.3.1 (e.g., <Content Module 1> is in 6.3.1.1, <Content Module 2> is in 6.3.1.2. When a content module is retired, the section should remain and only contain a statement that the content module has been retired. Some domains reserve section/transaction numbers (but do not include the content text here yet) when a supplement is released for Trial Implementation for editorial convenience and to provide continuity for implementers.>*

## Section not applicable

This heading is not used in a CDA document.

## <Domain Acronym> Value Sets

*<The content of Section 6.5 comes directly from the text of the Technical Framework Supplement template.>*

# <Domain Acronym> DICOM Content Definitions

*<The content of Section 7 comes directly from the text of the Technical Framework Supplement template.>*

# <Domain Acronym> Content Modules (type other than CDA or DICOM)

The structure for other types of “Content” sections has not yet been defined. Authors utilizing this section are encouraged to provide input to development of the template structure for this Technical Framework Volume 3 section at [http://ihe.net/Templates\_Public\_Comments](http://ihe.net/Templates_Public_Comments/).

Appendices

*<This appendices section is used for appendices specific to Volume 3>*

*<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 onto 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 3x for that domain. If Volume 3 is split into a volume 3a, 3b, etc., then appendices must be migrated to a volume 3x for consistency. If there is only a single Volume 3 for a domain, it is up to the domain’s discretion to begin a Volume 3x immediately or wait until necessary.>*

# Appendix A – <Appendix Title>

## A.1 <Title>

Appendix A.1 text.

### A.1.1 <Title>

Appendix A.1.1 text.

# Appendix B – <Appendix Title>

Appendix B text goes here.

## B.1 <Title>

Appendix B.1 text goes here.

### B.1.1 <Title>

Appendix B.1.1 text goes here.

# 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)).