Integrating the Healthcare Enterprise



IHE IT Infrastructure

Technical Framework Supplement

On-Demand Documents

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Trial Implementation

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Foreword

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This is a supplement to the IHE IT Infrastructure Technical Framework 8.0. Each supplement undergoes a process of public comment and trial implementation before being incorporated into the volumes of the Technical Frameworks.

This supplement is submitted for Trial Implementation as of August 19, 2011 and will be available for testing at subsequent IHE Connectathons. The supplement may be amended based on the results of testing. Following successful testing it will be incorporated into the IT Infrastructure Technical Framework. Comments are invited and can be submitted at

30 <u>http://www.ihe.net/iti/iticomments.cfm</u> or by email to iti@ihe.net.

This supplement describes changes to the existing technical framework documents and where indicated amends text by addition (**bold underline**) or removal (**bold strikethrough**), as well as addition of large new sections introduced by editor's instructions to "add new text" or similar, which for readability are not bolded or underlined.

35 "Boxed" instructions like the sample below indicate to the Volume Editor how to integrate the relevant section(s) into the relevant Technical Framework volume:

Replace Section X.X by the following:

- General information about IHE can be found at: <u>www.ihe.net</u>
 Information about the IHE ITI can be found at: <u>http://www.ihe.net/Domains/index.cfm</u>
 Information about the structure of IHE Technical Frameworks and Supplements can be found at: <u>http://www.ihe.net/About/process.cfm</u> and <u>http://www.ihe.net/profiles/index.cfm</u>
 The current version of the IHE Technical Framework can be found at:
- 45 <u>http://www.ihe.net/Technical_Framework/index.cfm</u>

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90 Introduction

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This supplement updates the XDS and XCA profiles to support the sharing of dynamically created document content by adding an option for On-Demand Documents.

On-Demand Documents are not specific to any type of content profile; it is expected that all document content profiles used by XDS and XCA may be shared using On-Demand Documents in the same way they are shared in the base XDS and XCA profiles.

Note: This Supplement makes use of content from the Metadata Update Supplement released for Trial Implementation at the same time. Some Vol. 3 sections referenced herein are new sections created by the Metadata Update Supplement.

The use of On-Demand Documents supports registration of the availability of content

- 100 dynamically assembled in a document; content that is expected to change over time, and in response to a retrieve request returns the most current content available to the responder. The use of On-Demand Documents is intended for an application architecture where the supplier of data wishes to provide, through a single request mechanism, the most current content available at the time of the request. The dynamic nature of the shared data means this environment is more
- 105 complicated to support but allows easy access to, for instance, summary data for a specific patient. However, it does not provide for robust source attestation of the overall document content because the content is selected through automation rather than overseen and attested in whole by a clinician.

The addition of On-Demand Document support, as specified in this supplement, is available in two document sharing environments. One served by a Document Registry Actor coordinating sharing within an XDS Affinity Domain with transactions specified by the IHE XDS profile. The second one served by the peer-to-peer access between communities (some of them possibly but not necessarily XDS based) that use the IHE XCA profile transactions to query and retrieve documents. Each environment will be discussed in this introduction.

- 115 The following describes a high level XDS workflow for On-Demand Documents where the content for the data to be shared is in a clinical database.
 - A new actor, called the On-Demand Document Source, registers an On-Demand Document Entry for a patient for which it maintains healthcare data in the XDS Document Registry. The On-Demand Document Entry describes what type of content will be returned and what
- 120 format the content will be delivered in (for example patient summary). This On-Demand Document Entry is registered with the XDS Document Registry.

• A Document Consumer which supports access to On-Demand Document Entries issues queries to the Document Registry requesting that On-Demand Document Entries (possibly as well as other types of entries) be returned. The Document Registry returns the entry created by the On Demand Document Source, if it actisfies the guery specified filter.

- by the On-Demand Document Source, if it satisfies the query specified filter
 - The Document Consumer uses the metadata from the On-Demand Document Entry to request the most recent content from the On-Demand Document Source. The On-Demand

Document Source searches its clinical database for content of the type defined by the On-Demand Document Entry, formulates this into a document, and returns the just created

- document. If the Document Consumer requests the data defined by the On-Demand Document Entry a second time, the content returned on the second request may be different than the first due to updates to the underlying clinical database. The On-Demand Document Source may choose to register the document created as a consequence of the Document Consumer's retrieve request, in which case it will group with a Document Source to register the newly created document. A new association is used to link the newly created document
 - to the On-Demand Document Entry.

For XCA Initiating Gateways, support of On-Demand Documents works the same way as it does within XDS, except that the query and retrieve are mediated through a Responding Gateway. For a Responding Gateway which groups with a Document Consumer to interact with an XDS

140 Document Registry and On-Demand Document Source, the use of On-Demand is fully handled by the XDS actors and the Responding Gateway requires no additional processing.

The following describes a high level XCA workflow for On-Demand Documents where content managed by the Responding Gateway is in a clinical database and is not accessed through interaction with XDS Actors.

- An Initiating Gateway which supports access to On-Demand Document Entries queries a Responding Gateway requesting that On-Demand Document Entries (possibly as well as other types of entries) be returned. The Responding Gateway returns On-Demand Document Entries for the patient identified in the query for which it maintains healthcare data. Each On-Demand Document Entry describes what type of content will be returned and what format the content will be delivered in (for example patient summary), but the particular content is expected to change over time.
 - The Initiating Gateway uses the metadata from the On-Demand Document Entry to request the most recent content from the appropriate Responding Gateway, defined by the homeCommunityId in the On-Demand Document Entry. The Responding Gateway searches
- 155 its clinical database for content of the type defined by the On-Demand Document Entry, formulates this into a document, and returns the document. If the Initiating Gateway requests the data defined by the On-Demand document entry a second time, the content returned on the second request may be different than the first due to updates to the underlying clinical database. The Responding Gateway may choose to save the document created as a
- 160 consequence of the Initiating Gateway's retrieve request, in which case it will include in response to future query requests a normal XDS Document Entry reflecting this saved document.

Compatibility with existing XDS/XCA Actors

In designing this optional enhancement to XDS and XCA, care was taken to support compatibility between actors supporting the new option and actors not supporting the new option. For each updated transaction, a section describes how the actors on the ends of the transaction can interact seamlessly, independent of whether they have agreed on support of the new option. Because of this approach, a deployment does not need to be concerned about a mismatch of option support unless the features of the new option are required in the deployment.

Open Issues and Questions 170

- ODD017: What are the semantics of a query involving R2 or Optional attributes when those attributes are not specified. This is of particular concern in this supplement for the dates creationTime and serviceStartTime and service StopTime since these are either always not specified (creationTime) or often unspecified. Tentative Resolution: Specified resolution
- 175 for creationTime but left concern of other attributes for resolution through larger CP 529 which addresses the problem within XDS since the problem exists there and is only exacerbated by this supplement.
 - ODD018: Should Initiating and Responding Gateways declare an option for support of On-Demand Documents? Tentative Resolution: If CP 531 passes it covers the situation for
- 180 Initiating and Responding Gateways which implement only a gateway to an XDS Affinity Domain since it requires Gateways to pass through all parameters and response entries. But for Initiating and Responding Gateways which are supporting communities not using XDS Affinity Domains the ability to advertise the ability to support On-Demand Documents may be useful so the option is retained although it has no or little implementation requirements for
- 185 many Gateways.

Closed Issues

Note: since the new concepts defined in this supplement have been re-named numerous times during its development, the older the closed issue is the farther from the current terminology it is expressed in. For this reason all Closed Issues from the Public Comment version of this

- 190 supplement have been moved to http://wiki.ihe.net/index.php?title=ITI On-Demand Documents#Closed Issues from Public Comment.
 - ODD012: Should the new DocumentEntryType parameter be added to the GetAll, GetSubmissionSetAndContents and GetFolderAndContents, GetRelatedDocuments? **Resolution**: Yes, new attribute is added to above stored queries.
- 195 ODD016: How do the changes described in this supplement effect DSUB? Resolution: • makes no sense to have DSUB manage on-demand documents.

Volume 1 – Integration Profiles

1.7 History of Annual Changes

Add the following bullet to the end of the bullet list in section 1.7

• Update the XCA and XDS Profiles to add support for sharing of document content which is assembled at time of retrieval through use of On-Demand Documents.

2.1 Dependencies among Integration Profiles

Note: No new dependencies are introduced with this supplement

210 Update Section 10 as follows: (Here start the updates to the XDS Vol. 1 material)

10 XDS Integration Profile

Make the following update to the introduction and first element of the numbered list at approximately line 1847.

The XDS Integration Profile is not intended to address all cross-enterprise EHR communication needs. Some scenarios may require <u>the use of specific XDS options</u>, other IHE Integration profiles, such as Patient Identifier Cross-Referencing, Audit Trail and Node Authentication, Cross-Enterprise User Authentication, and Retrieve Information for Display. Other scenarios may be only partially supported, while still others may require future IHE Integration profiles, which will be defined by IHE as soon as the necessary base standards are available. Specifically:

220	1.	The sharing and access tomanagement of dynamic information such as allergy lists,
		medication lists, problem lists, etc. is not addressed in part by XDS through the
		<u>aggregation of information across structured documents and in part by the XDS</u>
		<u>On-Demand Documents option that provides support for requesting most recent</u>
		<u>computer assembled content.complementary approach to managing updates and</u>
225		structured application access to such dynamic clinical information may be
		expected as a separate Integration Profile in the future. However the. In addition,
		other IHE profiles such as Query for Existing Documents (QED) and Retrieve
		Information for Display (RID) Profile does provide complementary means some
		transaction (e.g., LIST-ALLERGIES, LIST-MEDS) that may be used to provide
230		an elementary support of such capabilities. A complementary approach to
		managing updates and structured application access to such dynamic clinical
		information may be expected as a separate Integration Profile in the future to
		query a-priori known systems that may provide targeted dynamic information for
		a patient.

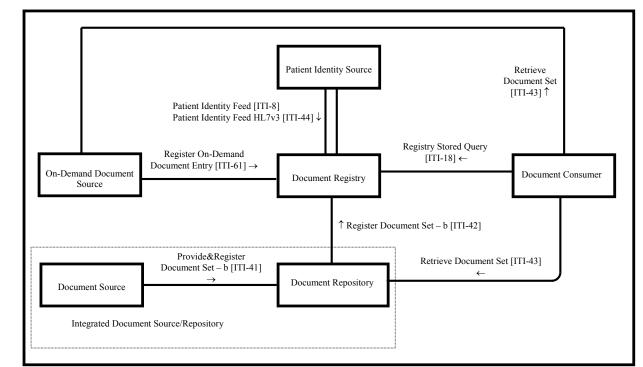
235

Update Section 10.1 as follows

10.1 Actors/ Transactions

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Update the following diagram to add the On-Demand Document Source and transactions from the Document Registry and Document Consumer.



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Figure 10.1-1b Cross-Enterprise Document Sharing – b (XDS.b) Diagram

Update the following table to add the new actor and transaction.

Actors	Transactions	Optionality	Section
Document Consumer	Registry Stored Query [ITI-18]	R	ITI TF-2a: 3.18
	Retrieve Document Set [ITI-43]	R	ITI TF-2b: 3.43
Document Source	Provide and Register Document Set-b [ITI-41]	R	ITI TF-2b: 3.41
Document Repository	Provide and Register Document Set-b [ITI-41]	R	ITI TF-2b: 3.41
	Register Document Set-b [ITI-42]	R	ITI TF-2b: 3.42
	Retrieve Document Set [ITI-43]	R	ITI TF-2b: 3.43
Document Registry	Register Document Set-b [ITI-42]	R	ITI TF-2b: 3.42
	Registry Stored Query [ITI-18]	R	ITI TF-2a: 3.18
	Patient Identity Feed [ITI-8]	O (Note 2)	ITI TF-2a: 3.8
	Patient Identity Feed HL7v3 [ITI-44]	O (Note 2)	ITI TF-2b: 3.44
	<u>Register On-Demand Document</u> Entry [ITI-61]	<u>0</u>	<u>ITI TF-2b: 3.61</u>
Integrated Document	Register Document Set-b [ITI-42]	R	ITI TF-2b: 3.42
Source/Repository	Retrieve Document Set [ITI-43]	R	ITI TF-2b: 3.43
Patient Identity Source	Patient Identity Feed [ITI-8]	O (Note 1,2)	ITI TF-2a: 3.8
	Patient Identity Feed HL7v3 [ITI-44]	O (Note 1,2)	ITI TF-2b :3.44
<u>On-Demand Document</u> <u>Source</u>	Register On-Demand Document Entry [ITI-61]	<u>R</u>	ITI TF-2b: 3.61
	Retrieve Document Set [ITI-43]	<u>R</u>	ITI TF-2b: 3.43

Table 10.1-1b XDS.b - Actors and Transactions

Note 1: If Assigning Authority of Patient ID presents in the Patient Identity Feed or Patient Identity Feed HL7v3 transaction, the Patient Identity Source is required to use an OID to identify the Assigning Authority. For technical details of the assigning authority information, see ITI TF-2a: 3.8.

Note 2: Document Registry and Patient Identify Source shall implement at least one of Patient Identity Feed or Patient Identity Feed HL7v3.

Add section 10.1.1.7

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10.1.1.7 On-Demand Document Source

The On-Demand Document Source supports On-Demand Document Entries by registering this type of entry with the Document Registry and by responding to Retrieve Document Set transactions for those entries with a document reflecting current information for the entry requested.

Update section 10.1.2.7 as follows:

10.1.2.7 Retrieve Document Set

265 A Document Consumer Actor initiates the Retrieve Document Set transaction. The Document Repository <u>or On-Demand Document Source</u> shall return the document set that was specified by the Document Consumer.

Rev. 1.2 – 2011-08-19

Add section 10.1.2.8

270 **10.1.2.8 Register On-Demand Document Entry**

The Register On-Demand Document Entry transaction is used by the On-Demand Document Source to register one or more On-Demand Document Entries in the Document Registry.

10.2 XDS Integration Profile Options

Update Table 10.2-1b as follows:

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Table 10.2-1b XDS.b - Actors and Options

Actor	Options	Vol & Section
Document Source	Document Replacement	ITI TF-1: 10.2.1
	Document Addendum	ITI TF-1: 10.2.2
	Document Transformation	ITI TF-1: 10.2.3
	Folder Management	ITI TF-1: 10.2.4
	Basic Patient Privacy Enforcement	ITI TF-2b:3.41.4.1.3.1
Document Repository	No options defined	
Document Registry (Note 2)	Patient Identity Feed (Note 1)	ITI TF-2a: 3.8
	Patient Identity Feed HL7v3 (Note 1)	ITI TF-2b: 3.44
	On-Demand Documents	<u>ITI TF-1: 10.2.6</u>
Integrated Document Source /	Document Replacement	ITI TF-1: 10.2.1
Repository	Document Addendum	ITI TF-1: 10.2.2
	Document Transformation	ITI TF-1: 10.2.3
	Folder Management	ITI TF-1: 10.2.4
	Basic Patient Privacy Enforcement	ITI TF-2b: 3.42.4.1.4.
Document Consumer	Basic Patient Privacy Enforcement	ITI TF-2a: 3.18.4.1.3.
		ITI TF-2b: 3.43.4.1.3.
	Basic Patient Privacy Proof	ITI TF-2a: 3.18.4.1.3.
	On-Demand Documents	<u>ITI TF-1: 10.2.6</u>
Patient Identity Source	Patient Identity Feed (Note 1)	ITI TF-2a: 3.8
	Patient Identity Feed HL7v3 (Note 1)	ITI TF-2b: 3.44
On-Demand Document Source	Persistence of Retrieved Documents	<u>ITI TF-1: 10.2.7</u>
	Basic Patient Privacy Enforcement	<u>ITI TF-2b:</u> 3.61.4.1.4.1

Add section 10.2.6 and section 10.2.7

10.2.6 On-Demand Documents Option

- 280 The XDS Integration Profile offers a basic service where any document consumer may discover and retrieve any of the documents for a specific patient that document sources have chosen to make available. Time of release and attestation of content are under the full control/responsibility of the document source. The On-Demand Documents option offers a complementary service for document consumers to discover one or more document sources that have the capability to
- 285 produce, for a specific patient, an on-demand document with content assembled at the time of processing the document consumer retrieve request.

A Document Consumer declares the On-Demand Documents option when it is able to specify in a query a request for On-Demand Document Entries and is capable of retrieving such entries.

A Document Registry declares the On-Demand Documents option when it:

- supports registration of On-Demand Document Entries via a Register On-Demand Document Entry Transaction
 - is also able to respond to Registry Stored Query requests which request On-Demand Document Entries
 - stores IsSnapShotOf associations received on a Register Document Set-b transaction

295 **10.2.7 Persistence of Retrieved Documents Option**

An On-Demand Document Source which supports the Persistence of Retrieved Documents Option shall be grouped with either a Document Source Actor or an Integrated Document Source/Repository Actor in order to register in the Document Registry a new Stable Document Entry which represents each document created as a result of receipt of a Retrieve Document Set which specified the uniqueID of an On-Demand Document Entry. This grouped Document

300 which specified the uniqueID of an On-Demand Document Entry. This grouped Document Source or Integrated Source/Repository shall include in the registration an association indicating that the Document Entry begin registered is a snapshot of the On-Demand Document Entry.

10.3 XDS Process Flow

10.4 General Principles

305 Update section 10.4.7.1 as follows

10.4.7.1 XDS Document Registry Data Model

The following entities are used in the XDS Document Registry Data Model:

XDS <u>Stable</u> **Document Entry**: Information entity managed by a Document Registry Actor that contains a set of metadata describing the major characteristics of an XDS Document along with a link to the Document Repository Actor where the actual XDS Document may be retrieved.

XDS On-Demand Document Entry: Information entity managed by a Document Registry Actor that contains a set of metadata describing the characteristics of a set of on-demand content which can be instantiated through retrieval from the On-Demand Document Source. On-demand content is document content that is generated at the time of the

315 retrieve request and contains the most recent information available related to the metadata which describes it.

XDS Document Entry: Refers generically to both XDS Stable Document Entry and XDS On-Demand Document Entry. See Section 10.4.13 for more details about the use of both kinds of XDS Document Entries.

320 **XDS Document:** A stream of bytes stored in a Document Repository Actor and pointed to by an XDS Document Entry.

Update section 10.4.10.2 as follows:

10.4.10.2 Document Relationships

325 (...)

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A <u>replacement</u> document is a new version of an existing document. The replacement document has a new document Id; its parent Id attribute contains the document Id of the Document Entry associated with the previous version of the XDS Document, and parent relationship contains the code "RPLC". The Document Entry for the previous version shall have its Availability Status changed to "deprecated".

Replacement of On-Demand Document Entries works exactly the same as replacing Stable Document Entries in that the new entry is marked Approved and the replaced entry is marked Deprecated. But an On-Demand Document Entry which has been replaced cannot be expected to provide content that is current, so the On-Demand Document Source may return an error if a Retrieve Document Set request is received with a uniqueID for a

335 <u>return an error if a Retrieve Document Set request is received with a unique</u> <u>deprecated entry.</u>

Add the new section 10.4.13

10.4.13 XDS Document Entry Types

340 Of all the XDS Entity types (see 10.4.7.1 for a list of all XDS Entities) there are two that support retrieval of content and are generically referred to as XDS Document Entries.

XDS Stable Document Entry: A Stable Document Entry contains metadata about an already created document available for retrieval. This document is stable because the contents have been

effectively combined in the exact representation that will be returned in a Retrieve Document

- 345 Set. Support for this entry type is required of Document Source, Document Consumer, Document Repository, Document Registry, and Integrated Document Repository/Source. Only a Document Repository or Integrated Document Repository/Source will register a Stable Document Entry with a Document Registry, and so only those actors support retrieval of Stable Document Entries.
- 350 XDS **On-Demand Document Entry**: An On-Demand Document Entry contains metadata describing the characteristics of a set of on-demand content and a unique identifier which can be used to create a document which collects the latest, most recent available information at the time of retrieval. On-Demand Document Entries get registered in a Register On-Demand Document Entry transaction by the On-Demand Document Source.

355 **10.4.13.1 Use Cases Summary**

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Each type of XDS Document Entry is designed for a different environment of document sharing. To determine which type of XDS Document Entry should be used, an analysis of the environment is needed. Stable Document Entries and On-Demand Document Entries may coexist in an XDS Affinity Domain. In particular, queries can be formulated to return both document entry types for a specific patient.

Case 1: Sharing of Stable, Source Attested Document

In this model, health data is published by a well-identified and responsible source (clinician, care delivery organization, individual consumer, etc.). The source determines when a meaningful collection of data should be published based on clinical events or other activities understood by

- 365 the source and potential remote entities. The source publishes stable collections of data in the form of one or more documents, for potential use by other entities. Other entities access the documents by querying for a list of documents that have been published, and retrieving those that are of interest. Documents are source attested; consistency and wholeness is the responsibility of the source, which provides explicit context for each document (legal record keeping
- 370 requirements). Complete documents are stored in repositories. If errors need to be corrected or updates are needed, they are the responsibility of the source. Entities accessing these records are offered trust guaranties equivalent or superior to paper records shared today.

Case 2: Sharing of On-Demand Document

As part of an extract from a health record, some documents, containing specific types of content, 375 may be automatically generated with non-stable or dynamic content. These documents are "dynamic" in that each retrieval of the document may result in different content. Documents whose content is assembled at the time of retrieval have no inherent stable properties like persistence or stewardship. The wholeness of a dynamically created document will not be based on any clinician attestation and may require careful clinical interpretation depending on the

380 content and the span of aggregation performed by the document authoring system. If the document authoring system originates from a single care delivery organization, context and wholeness may be quite good. If the aggregation was performed across multiple health delivery organizations, the aggregator may have difficulties assuming legal and clinical responsibility for

the aggregated content. An example of a dynamically created document is a summary that collects information related to multiple healthcare events or on-going healthcare events.

On-Demand Documents Process Flow

The use of On-Demand Documents supports registration of the availability of dynamically assembled content, content that is expected to change over time, and in response to a retrieve request always returns the most current content available to the responder. The use of On-Demand Documents is intended for an application architecture where the supplier of data wishes to provide, through a single request mechanism, the most current knowledge available at the time of the request. Dynamically created content are services that present data in the form of documents using XDS and XCA transactions and infrastructure. The dynamic nature of the data means this environment is more complicated to support but allows easy access to, for instance, summary data for a specific patient. However, it does not provide for robust source attestation of

the overall document content because the content is selected through automation rather than overseen and attested in whole by a clinician.

The following describes a high level XDS workflow for On-Demand Documents where the content for the data to be shared is in a clinical database.

- The On-Demand Document Source registers an On-Demand Document Entry for a patient for which it maintains healthcare data. The On-Demand Document Entry describes what type of content will be returned and what format the content will be delivered in (e.g., XDS-MS patient summary). This On-Demand Document Entry is registered with the XDS Document Registry
- 405 Document Registry.
 - A Document Consumer which supports access to On-Demand Document Entries queries the Document Registry requesting that On-Demand Document Entries (possibly as well as other types of entries) be returned. The Document Registry returns the entries created by the On-Demand Document Source that match the query parameters.
- The Document Consumer uses the metadata from the On-Demand Document Entry to request the most recent content from the On-Demand Document Source. The On-Demand Document Source searches its clinical database for content of the type defined by the On-Demand Document Entry, formulates this into a document, and returns the document. If the Document Consumer repeats the request for data defined by the On-Demand Document
- Entry, the content returned on the second request may be different than the first due to updates to the underlying clinical database. The On-Demand Document Source may choose to register the document created as a consequence of the Document Consumer's retrieve request, in which case it will group with a Document Source to register the newly created document. A special association is used to link the newly created document to the On-Demand Document Entry.
 - *Update Section 18 as follows: (Here start the updates to the XCA Vol. 1 material currently in a supplement)*

18 XCA Integration Profile

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Update Section 18.2 as follows

18.2 XCA Integration Profile Options

Options that may be selected for this Integration Profile are listed in the Table 18.2-1 along with the Actors to which they apply. Dependencies between options when applicable are specified in notes.

Actor	Options	Vol & Section
Initiating Gateway	XDS Affinity Domain Option	ITI TF-1: 18.2.1
	Asynchronous Web Services Exchange	ITI TF-1: 18.2.2
	On-Demand Documents	<u>ITI TF-1: 18.2.4</u>
Responding Gateway	No options defined	-
	On-Demand Documents	ITI TF-1:18.2.4
	Persistence of Retrieved Documents	<u>ITI TF-1: 18.2.5</u>

Table 18.2-1 XCA Integration Profile - Actors and Options

18.2.4 On-Demand Documents

Initiating and Responding Gateways may declare support for On-Demand Document Entries.
Refer to section ITI TF-1:10.4.13 for details about On-Demand Document Entries.

Requirements for an Initiating Gateway supporting this option differ depending on whether or not the Initiating Gateway also supports the XDS Affinity Domain option:

• An Initiating Gateway that supports the XDS Affinity Domain option relies on an XDS Document Consumer actor in its local community to generate query and retrieve requests

440 which support On-Demand Document Entries. The Initiating Gateway does not modify content related to On-Demand Entries, but passes it in the Cross-Gateway Query and Retrieve messages to the Responding Gateway and returns full results to the Document Consumer. For this reason this option imposes no additional requirements on Initiating Gateways which support the XDS Affinity Domain option.

- An Initiating Gateway that supports the On-Demand Documents option, but not the XDS Affinity Domain option, shall
 - be able to specify, in a Cross Gateway Query, a request for On-Demand Document Entries
 - be able to retrieve On-Demand Document Entries from one or more Responding Gateways

Requirements for a Responding Gateway supporting this option differ depending on whether or not the Responding Gateway is grouped with an XDS Document Consumer:

- A Responding Gateway which groups with an XDS Document Consumer to interact with XDS Document Registry and Repository actors is dependent on that grouped actor to support
- 455 the semantics needed for On-Demand Documents. The Responding Gateway does not modify On-Demand Document Entries obtained from the XDS Document Consumer and passes them within the Cross-Gateway Query and Retrieve response messages returned to the Initiating Gateway. For this reason this option imposes no additional requirements on Initiating Gateways which group with an XDS Document Consumer.
- A Responding Gateways that is not grouped with an XDS Document Consumer shall:
 - be able to respond with On-Demand Document Entries to a Cross Gateway Query requesting On-Demand Document Entries. Without this option, a Responding Gateway shall ignore the request for On-Demand Document Entries (i.e., return an empty list if no other type of entry matches the query parameters).
- be able to respond to a Cross Gateway Retrieve requesting On-Demand Document Entries.

18.2.5 Persistence of Retrieved Documents

Responding Gateways which support the Persistence of Retrieved Documents option shall:

- also support the On-Demand Documents option
- make available, as a Stable Document Entry in response to a Cross Gateway Query, every document created as a result of receipt of a Cross Gateway Retrieve which specified the uniqueID of an On-Demand Document Entry

See Section 18.3.3.2 for an overview of this.

18.3 XCA Process Flow

475 **18.3.3 Detailed Interactions**

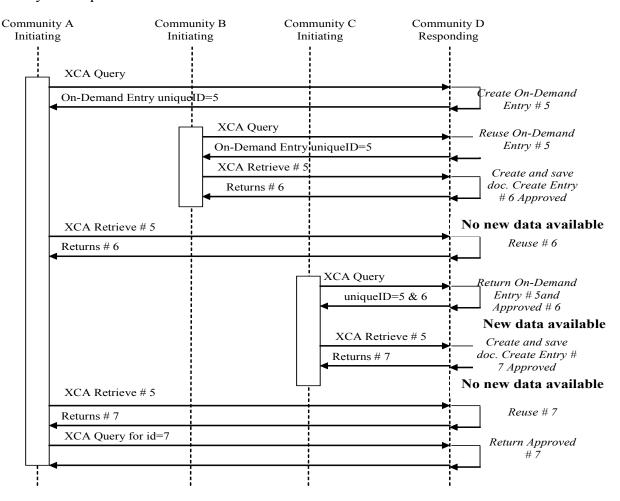
Add the following to the end of section 18.3.3.

18.3.3.1 Sharing using On-Demand Documents

Figure 18.3.3-2 shows the use of an On-Demand Document Entry to allow access to the most recently available set of data from a responding community. This example does not show the Gateways interacting with XDS Actors and does not assume that XDS is used in any of the communities. This workflow includes persisting each document returned as a result of a retrieve and forming a stable document entry describing the new document which will be returned to future Cross Gateway Query requests. The semantics of the response to a retrieve of an On-Demand Document Entry are different than the semantics of the response to retrieval of stable

485 documents. The response to a retrieve of an On-Demand Document Entry contains a new uniqueld, different than the uniqueld specified in the request, which is the same as the value

within the ClinicalDocument id of the document returned. Use of an appropriate query against that new uniqueId will allow the requestor access to updated metadata about the document, including size, hash, etc. This workflow assumes that some change to the underlying data occurs between the time Community A retrieves on-demand document entry #5, and Community C retrieves on-demand document entry #5. That is why #6 is not re-used in response to Community C's request.





Note: Figure 18.3.3-2 is a diagram of a possible interaction, not the required interaction. In particular, the ability of the Responding Gateway to determine whether there is new data available or not is an implementation detail. In the case where a Responding Gateway is able to make that determination it should work as presented. If the Responding Gateway is not able to make that determination then it is free to create a new document at every retrieve request.

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500 Appendix A Actor Summary Definitions

On-Demand Document Source - The On-Demand Document Source is the producer and publisher of On-Demand Documents. This actor registers On-Demand Document Entries with the Document Registry and responds to Retrieve Document Set transactions with a document reflecting current information for the entry requested.

Appendix B Transaction Summary Definitions

Register On-Demand Document Entry – The Register On-Demand Document Entry transaction is used by the On-Demand Document Source to register one or more On-Demand
 Document Entries in the Document Registry.

Volume 2 – Transactions

Vol. 2a: 3.18 Update Registry Stored Query ITI-18 to reflect describe new parameters

3.18 Registry Stored Query

515 *Vol. 2a: Add new section 3.18.4.1.2.3.6.2*

3.18.4.1.2.3.6.2 Valid DocumentEntryType Parameter Values

The objectType attribute on an ExtrinsicObject (DocumentEntry) is used to distinguish Stable DocumentEntries from On-Demand DocumentEntries. The following objectType values are used:

- urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1 Stable
 - urn:uuid:34268e47-fdf5-41a6-ba33-82133c465248 On-Demand

The valid DocumentEntryType parameter values used in the Registry Stored Query are:

- urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1 requests Stable Document Entries be included in the response. This is the default value.
- urn:uuid:34268e47-fdf5-41a6-ba33-82133c465248 requests On-Demand Document Entries be included in the response. Used only by Document Consumers which support the On-Demand Documents option.

If no value is specified for DocumentEntryType, the value requesting only Stable Document Entries shall be assumed. To get all Document Entry types, the query shall contain both of the valid values in the request.

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Vol. 2a: Update section 3.18.4.1.2.3.7.1 to add the new parameter DocumentEntryType and a footnote for CreationTimeFrom and To. Note that although this text shows the new footnotes as #6 and #7, when integrating the change use the next unused footnote for the table.

535 3.18.4.1.2.3.7.1 FindDocuments

Parameter Name	Attribute	Opt	Mult
\$XDSDocumentEntryCreationTimeFrom ²	Lower value of XDSDocumentEntry. creationTime	0	
\$XDSDocumentEntryCreationTimeTo ²	Upper value of XDSDocumentEntry. creationTime	0	

Parameter Name	Attribute	Opt	Mult
\$XDSDocumentEntryStatus	XDSDocumentEntry. status	R	М
<u>\$XDSDocumentEntryType⁶</u>	XDSDocumentEntry.objectType	<u>0</u>	M

(footnotes deleted)

⁶ See ITI TF-2a:3.18.4.1.2.3.6.2

⁷ CreationTimeFrom and CreationTimeTo are ignored when evaluating an On-Demand 540 Document Entry's selection for inclusion in the query response.

Vol. 2a: Update section 3.18.4.1.2.3.7.4 to add the new parameter DocumentEntryType. Note that although this text shows the footnote as #6, when integrating the change, use the next unused footnote for the table.

545 3.18.4.1.2.3.7.4 GetAll

Parameter Name	Attribute	Opt	Mult
\$patientId	XDSFolder. patientId, XDSSubmissionSet. patientId, XDSDocumentEntry. patientId	R	
\$XDSDocumentEntryStatus	XDSDocumentEntry. status	R	М
\$XDSSubmissionSetStatus	XDSSubmissionSet. status	R	М
\$XDSFolderStatus	XDSFolder. status	R	М
\$XDSDocumentEntryFormatCode ²	XDSDocumentEntry. formatCode	0	М
\$XDSDocumentEntryConfidentialityCode ^{1, 2}	XDSDocumentEntry. confidentialityCode ¹	0	М
<u>\$XDSDocumentEntryType⁶</u>	XDSDocumentEntry.objectType	<u>0</u>	M

1 . . .

⁶ See ITI TF-2a:3.18.4.1.2.3.6.2

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Vol. 2a: Update section 3.18.4.1.2.3.7.10 to add the new parameter DocumentEntryType. Note that although this text shows the footnote as #6, when integrating the change, use the next unused footnote for the table.

3.18.4.1.2.3.7.10 GetSubmissionSetAndContents

Parameter Name	Attribute	Opt	Mult
\$XDSSubmissionSetEntryUUID ⁵	XDSSubmissionSet. entryUUID	O^1	
\$XDSSubmissionSetUniqueId ⁵	XDSSubmissionSet. uniqueId	O^1	
\$XDSDocumentEntryFormatCode ⁴	XDSDocumentEntry. formatCode	0	М

Parameter Name	Attribute	Opt	Mult
\$XDSDocumentEntryConfidentialityCode ⁴	XDSDocumentEntry. confidentialityCode ²	0	М
<pre>\$homeCommunityId</pre>	None	O^3	
<u>\$XDSDocumentEntryType⁶</u>	<u>XDSDocumentEntry.objectType</u>	<u>0</u>	M

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1 . . .

⁶ See ITI TF-2a:3.18.4.1.2.3.6.2

Vol. 2a: Update section 3.18.4.1.2. $\overline{3.7.11}$ *to add the new parameter DocumentEntryType. Note that although this text shows the footnote as #6, when integrating the change use, the next unused footnote for the table.*

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3.18.4.1.2.3.7.11 GetFolderAndContents

Parameter Name	Attribute	Opt	Mult
\$XDSFolderEntryUUID ⁵	XDSFolder. entryUUID	O^1	
\$XDSFolderUniqueId ⁵	XDSFolder. uniqueId	O^1	
\$XDSDocumentEntryFormatCode ⁴	XDSDocumentEntry. formatCode	0	М
\$XDSDocumentEntryConfidentialityCode ⁴	XDSDocumentEntry. confidentialityCode ²	0	М
\$homeCommunityId	None	O^3	
<u>\$XDSDocumentEntryType⁶</u>	<u>XDSDocumentEntry.objectType</u>	<u>0</u>	M

1 . . .

565 <u>⁶ See ITI TF-2a:3.18.4.1.2.3.6.2</u>

Vol. 2a: Update section 3.18.4.1.2.3.7.13 to add the new parameter DocumentEntryType. Note that although this text shows the footnote as #6, when integrating the change ,use the next unused footnote for the table.

3.18.4.1.2.3.7.13 GetRelatedDocuments

Parameter Name	Attribute	Opt	Mult
\$XDSDocumentEntryEntryUUID	XDSDocumentEntry. entryUUID	O^1	
\$XDSDocumentEntryUniqueId	XDSDocumentEntry. uniqueId	O^1	
\$AssociationTypes	Not a named attribute	R	М
\$homeCommunityId	None	O^2	
<u>\$XDSDocumentEntryType⁶</u>	XDSDocumentEntry.objectType	<u>0</u>	M

1 . . .

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⁶ See ITI TF-2a:3.18.4.1.2.3.6.2

575 *Vol. 2a: Replace the currently empty Section 3.18.4.1.2.5 with the following text:*

3.18.4.1.2.5 Compatibility of Options

The presence or absence of the optional \$XDSDocumentEntryType parameter triggers different behaviors on the Document Registry. If this parameter is specified, and the Document Registry does not support it, the Document Registry shall ignore. If it is specified, and the Document Registry does support it, the proper information is returned.

- If the Document Consumer does not support the On-Demand Documents Option, it will send a Registry Stored Query request which does not contain the \$XDSDocumentEntryType parameter. The Document Registry will therefore not supply any On-Demand Document Entries in the query response.
- If the Document Consumer *does* support the On-Demand Documents Option then it will be able to specify the \$XDSDocumentEntryType parameter containing the uuid for On-Demand Document Entries in a Registry Stored Query. A Document Registry with the On-Demand Documents Option will recognize the \$XDSDocumentEntryType parameter and process accordingly. A Document Registry which does not support the On-Demand Documents
- 590 Option, will ignore the \$XDSDocumentEntryType parameter. Since there cannot be any On-Demand Document Entries held by a Document Registry which does not support On-Demand Documents, this is a consistent response to the request.

595 XCA Supplement: Update Cross Gateway Query to adopt changes to ITI-18 when option is declared

Update section 3.38.4.1.2

3.38 Cross Gateway Query

3.38.4.1.2 Message Semantics

600 The message semantics are based on the Registry Stored Query. See ITI TF-2a: 3.18.4.1.2.

Initiating Gateways which support the On-Demand Documents option shall be capable of querying for an On-Demand Document Entry either through internal mechanisms or, when the XDS Affinity Domain option is also declared, through interaction with an XDS Document Consumer which supports the On-Demand Documents option.

605 <u>Responding Gateways which support the On-Demand Documents option shall be able to</u> respond to a query of an On-Demand Document Entry, either through internal mechanisms or, when grouped with a Document Consumer, through interaction with appropriate XDS Actors which support On-Demand Documents.

Of special note are the use of homeCommunityId, specifying the patient identifier and special handling of some stored queries. These are explained below.

XCA Supplement: insert new section 3.38.4.1.3.1

3.38.4.1.3.1 Compatibility of Options

The presence or absence of the optional \$XDSDocumentEntryType parameter triggers the behaviors on the Responding Gateway. If this value is specified, and the Responding Gateway (or XDS community supported by the Responding Gateway) does not support it, it shall be ignored. If it is specified, and the Responding Gateway (or underlying XDS community) does support it, the proper information is returned. See ITI TF-2a:3.18.4.1.2.5 for more details regarding compatibility of the Registry Stored Query transaction.

620

XCA Supplement: Update Cross Gateway Retrieve to adopt changes to Retrieve Doc Set when option is declared

Update section 3.39.4.1.2 and 3.39.4.1.3 as follows:

3.39 Cross Gateway Retrieve

625 **3.39.4.1.2 Message Semantics**

The message semantics for Cross Gateway Retrieve are the same as Retrieve Document Set. See ITI TF-2b: 3.43.4.1.2. The Initiating Gateway shall specify the homeCommunityId parameter within the Retrieve Document Set. The homeCommunityId shall contain the value that identifies the community associated with the Responding Gateway.

630 <u>Initiating Gateways which support the On-Demand Documents Option shall be capable of</u> retrieving an On-Demand Document Entry either through internal mechanisms or, when the XDS Affinity Domain option is also declared, through interaction with an XDS Document Consumer which supports the On-Demand Documents option.

Responding Gateways which support the On-Demand Documents Option shall be able to635respond to retrieval of an On-Demand Document Entry either through internal
mechanisms or, when grouped with a Document Consumer, through interaction with
appropriate XDS Actors which support On-Demand Documents. Responding Gateways
which support the Persistence of Retrieved Documents Option shall specify the
NewRepositoryUniqueId element indicating the document is available for later retrieval

640 <u>and be able to return exactly the same document in all future retrieve requests for the</u> <u>document identified by NewDocumentUniqueId.</u>

XCA Supplement: insert new section 3.39.4.1.3.1

3.39.4.1.3.1 Compatibility of Options

645 If the Initiating Gateway does not support the On-Demand Document Option, it will never send a Cross Gateway Retrieve request for an On-Demand Document. In this case, none of the attributes specific to On-Demand Documents will be included in the response.

If the Initiating Gateway does support the On-Demand Document Option, it will only direct Cross Gateway Retrieve requests for On-Demand Documents to responders which have returned

650 an On-Demand Document Entry in a Cross Gateway Query response. Thus there are no compatibility concerns with this transaction.

Vol. 2b: Update Retrieve Document Set Transaction in Volume 2b

3.43 Retrieve Document Set

655 3.43.1 Scope

This transaction is used by the Document Consumer to retrieve a set of documents from the Document Repository <u>or On-Demand Document Source</u>. The Document Consumer has already obtained the XDSDocumentEntry uniqueId and the Document Repository repositoryUniqueId from the Document Registry by means of the Registry Stored Query

660 transaction.

Add On-Demand Document Source to Figure 3.43.2 as a third actor on this transaction.

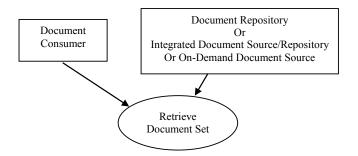


Figure 3.43.2: Use Case Roles

665 XDS Actors:

Actor: Document Consumer

Role: Obtains document

Actor: Document Repository or Integrated Document Source/Repository

Role: Provides documents

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Actor: On-Demand Document Source

Role: Creates documents in response to a request for retrieval of an on-demand document entry.

Note: Within this transaction, the Document Repository and Integrated Document Source/Repository actors can be used interchangeably.

Update Figure 3.43.4 to add On-Demand Document Source as a responder to a Retrieve Document Set Request

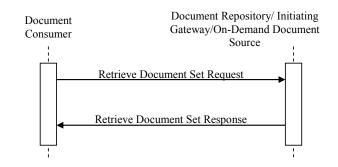


Figure 3.43.4: Interaction Diagram

680 Update Section 3.43.4.2.2 to add text after the bullet list.

3.43.4.2.2 Message Semantics

The Retrieve Document Set Response Message shall carry the following information:

• (...)

If the documentUniqueId is associated with an On-Demand Document Entry, the Retrieve685Document Set Response Message shall contain a NewDocumentUniqueId element that
identifies the document that is returned in the Retrieve Document Set Response. This
identifier shall be different than the DocumentUniqueId element which identifies the On-
Demand Document Entry. The Retrieve Document Set Response Message may also include
a NewRepositoryUniqueId element that identifies the Document Repository which holds690the document returned in the Retrieve Document Set Response. If this element is not
included, the document returned in the response has not been persisted for later retrieval.
If the On-Demand Document Source implements the Persistence of Retrieved Documents
Option, this element shall be specified. If a future Retrieve Document Set Message for the

695 <u>same DocumentUniqueId returns the same NewDocumentUniqueId, the content of the</u> 695 <u>document shall be identical to the prior returned content. On-Demand Document Source</u> <u>Actors are encouraged to re-use Document uniqueId's whenever content has not changed</u> <u>in order to facilitate identification of new content by Document Consumers.</u>

Update Section 3.43.4.2.3 as shown.

700 3.43.4.2.3 Expected Actions

A Document Repository <u>or On-Demand Document Source</u> shall ret<u>urnrieve</u> the document(s) indicated in the request.

The Document Repository shall return the document or an error code in case the document could not be ret<u>urnriev</u>ed. The conditions of failure and possible error messages are given in the ebRS standard and detailed in ITI TF-3: 4.1.13 Error Reporting.

An On-Demand Document Source which supports the Persistence of Retrieved Documents Option shall save the document content returned in the retrieve response and register a Stable Document Entry which describes the saved document. If a prior document has been saved this new document may, depending on the type of data generated by the Document

- 710 <u>Source, replace the prior document. The registration of the new Stable Document Entry</u> <u>shall include</u>
 - <u>A Submission Set</u>

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- <u>A DocumentEntry representing the stable DocumentEntry</u>
- <u>A HasMember association linking DocumentEntry to SubmissionSet</u>
- An IsSnapshotOf Association which identifies the sourceObject as the new Stable Document Entry and the targetObject as the On-Demand Document Entry which contains the uniqueID used in the Retrieve Document Set request. See ITI TF-3:4.1.6.2.3 for information about the IsSnapshotOf Association.
- <u>If this is not the first request for this on-demand document and a prior document was</u> 720 replaced, a Replace Association which identifies the prior document,

Add new section 3.43.4.2.3.1 to explain compatibility of declared options

3.43.4.2.3.1 Compatibility of Options

If the Document Consumer does not support the On-Demand Documents Option it will never send a Retrieve Document Set request for an On-Demand Document entry. In this case, none of the new attributes will be included in the response.

If the Document Consumer does support the On-Demand Documents Option, it will only direct requests for On-Demand Document Entries to responders which have specified their unique repositoryUniqueId in the On-Demand Document Entry from the registry. Thus, unless there is an error in the metadata, there are no compatibility concerns with this transaction.

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Update Section 3.43.5 as shown.

3.43.5 Protocol Requirements

The <ihe:RetrieveDocumentResponse/> element is defined as:

- A required /ihe:RetrieveDocumentSetResponse/rs:RegistryResponse element
- An optional sequence of <ihe:DocumentResponse/> elements containing
 - A <ihe:HomeCommunityId/> element. The value of this element shall be the same as the value of the /RetrieveDocumentSetRequest/DocumentRequest/HomeCommunityId element in the Retrieve Document Set Request Message. If the <ihe:HomeCommunityId/> element is not present in the Retrieve Document Set Request
 - Message, this value shall not be present.
 - A required <ihe:RepositoryUniqueId/> that identifies the repository from which the document is to be retrieved. The value of this element shall be the same as the value of the /RetrieveDocumentSetRequest/DocumentRequest/RepositoryUniqueId element in the original Retrieve Document Set Request Message. This value corresponds to XDSDocumentEntry.repositoryUniqueId.
 - A required <ihe:DocumentUniqueId/> that identifies the document within the repository. The value of this element shall be the same as the value of the /RetrieveDocumentSetRequest/DocumentRequest/DocumentUniqueId element in the original Retrieve Document Set Request Message. This value corresponds to XDSDocumentEntry.uniqueId.
 - A required <ihe:Document/> element that contains the retrieved document in base64binary encoded format.
 - A required <ihe:mimeType/> element that indicates the MIME type of the retrieved document.
- An optional <ihe:NewDocumentUniqueId/> element that identifies the document returned in the request when retrieval is of an On-Demand Document. This is required when retrieval is of an On-Demand Document.

• <u>An optional <ihe:NewRepositoryUniqueId/> element that identifies the Document</u> <u>Repository that will support retrieval of the document created as a result of</u> <u>retrieval of the On-Demand Document. This is required when the On-Demand</u> Document Source supports the Persistence of Retrieved Documents Option.

Add new section 3.43.5.1.3 to show a sample retrieve response from dynamic

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3.43.5.1.3 Sample Retrieve Document Set Response from On-Demand Document Entry

The following example shows the response to retrieval of a dynamic document entry where the responder supports later retrieval of the document created.

<pre>770 </pre> <pre><rue>rmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing"> <s:header> <a:action s:mustunderstand="1">urn:ihe:iti:2007:RetrieveDocumentSetResponse</a:action>urn:ihe:iti:2007:RetrieveDocumentSetResponseurn:ihe:iti:2007:RetrieveDocumentSetResponseurn:ihe:iti:2007:RetrieveDocumentSetResponse</s:header></rue></pre>	>
<pre><s:header> <a:action s:mustunderstand="1">urn:ihe:iti:2007:RetrieveDocumentSetResponse</a:action></s:header></pre>	>
<a:action s:mustUnderstand="1">urn:ihe:iti:2007:RetrieveDocumentSetResponse<th>></th></a:action 	>
s:mustUnderstand="1">urn:ihe:iti:2007:RetrieveDocumentSetResponse <th>></th>	>
	>
<pre><a:relatesto>urn:uuid:0fbfdced-6c01-4d09-a110-2201afedaa02</a:relatesto></pre>	
775	
<s:body></s:body>	
<retrievedocumentsetresponse< th=""><th></th></retrievedocumentsetresponse<>	
xmlns="urn:ihe:iti:xds-b:2007"	
<pre>xmlns:lcm="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0"</pre>	
780 xmlns:query="urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0"	
<pre>xmlns:rim="urn:oasis:names:tc:ebxml-regrep:xsd:rim:3.0"</pre>	
<pre>xmlns:rs="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0"></pre>	
<rs:registryresponse status="urn:oasis:names:tc:ebxml-</th><th></th></tr><tr><th>regrep:ResponseStatusType:Success"></rs:registryresponse>	
785 <documentresponse></documentresponse>	
<pre><repositoryuniqueid>1.3.6.1.41000</repositoryuniqueid></pre>	
<pre><documentuniqueid>1.3.6.1.42300</documentuniqueid></pre>	
<pre><newdocumentuniqueid>1.3.6.1.42897</newdocumentuniqueid></pre>	
<pre><newrepositoryuniqueid>1.3.6.1.41000</newrepositoryuniqueid></pre>	
790 <pre><mimetype>text/xml</mimetype></pre>	
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
<documentresponse></documentresponse>	
<pre><repositoryuniqueid>1.3.6.1.41000</repositoryuniqueid></pre>	
795 <pre><documentuniqueid>1.3.6.1.42300</documentuniqueid></pre>	
<mimetype>text/xml</mimetype>	
<pre><document>UjBsR09EbGhjZ0dTQUxNQUFBUUNBRU1tQ1p0dU1GUXhEUzhi</document></pre>	
800	

3.43.6.1 Audit Record Considerations

The Retrieve Document Set Transaction is PHI-Export event, as defined in ITI TF-2a: Table 3.20.6-1. The Actors involved in the transaction shall create audit data in conformance with DICOM (Supp 95) "Data Export"/"Data Import", with the following exceptions.

The **Document** Repository Actor shall generate an "Export" event. This may be an event for each Retrieve Document Transaction, or multiple transactions for the same patient may be heuristically combined. The heuristics for this combination are not specified by IHE. It is intended to reduce the volume of audit records. Combination is permitted when the active participants and notice the same and the time difference is considered incignificant.

810 participants and patient are the same, and the time difference is considered insignificant.

<u>The On-Demand Document Source Actor shall generate audit events exactly the same way</u> as is done for the Document Repository Actor.

The Document Consumer Actor shall generate an "Import" event. This may be one event per transaction, or multiple transactions may be reported as a single event using a heuristic for

815 combining transactions. Combination is permitted when the active participants and patient are the same, and the time difference is considered insignificant.

Vol. 2b: Add section 3.61

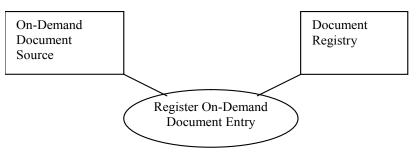
3.61 Register On-Demand Document Entry

820 This section corresponds to Transaction 61 of the IHE ITI Technical Framework. Transaction 61 is used by the On-Demand Document Source and Document Registry actors.

3.61.1 Scope

The Register On-Demand Document Entry transaction passes a Submission Request from an On-Demand Document Source actor to a Document Registry actor. The Submission Request
 contains metadata describing one or more On-Demand Document Entries.

3.61.2 Use Case Roles



Actor: On-Demand Document Source

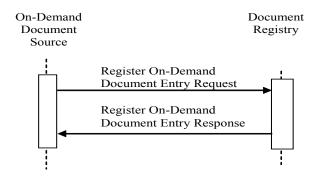
- Role: A Provider of On-Demand Documents that registers a patient specific on-demand document to the Document Registry.
 - Actor: Document Registry
 - **Role:** A document indexing system that receives and stores metadata about available ondemand documents.

3.61.3 Referenced Standard

835 Implementors of this transaction shall comply with all requirements described in ITI TF-2x: Appendix V: Web Services for IHE Transactions.

ebRIM	ASIS/ebXML Registry Information Model v3.0			
ebRS	OASIS/ebXML Registry Services Specifications v3.0			
HL7V2	HL7 Version 2.5			
Appendix V	ITI TF-2x:Appendix V Web Services for IHE Transactions Contains references to all Web Services standards and requirements of use			

3.61.4 Interaction Diagram



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3.61.4.1 Register On-Demand Document Entry Request

The On-Demand Document Source sends metadata about one or more patient specific n-demand documents to the Document Registry.

3.61.4.1.1 Trigger Events

845 The Register On-Demand Document Entry Request message is triggered when the On-Demand Document Source chooses to make available an on-demand document for a particular patient.

3.61.4.1.2 Message Semantics

The sections in ITI TF-3: 4.1 specify the mapping of XDS concepts to ebRS and ebRIM semantics and document metadata. In its use of metadata the On-Demand Document Entry follows the same conventions and requirements as a Document Entry except for the following.

- creationTime Not Applicable, shall not be specified in a Register On-Demand Document Entry request.
- Hash Not Applicable, shall not be specified in a Register On-Demand Document Entry Request.
- legalAuthenticator Recommend this not be specified as having no clear meaning in the context of an On-Demand Document Entry.

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- repositoryUniqueId The globally unique identifier of the On-Demand Document Source which providers the on-demand document. This unique identifier for the On-Demand Document Source may be used to identify and connect to the specific On-Demand
- 860
- Document Source where a current instance of the on-demand document may be retrieved. The repositoryUniqueId represents an immutable id for the On-Demand Document Source.
- Size Not Applicable, shall not be specified in a Register On-Demand Document Entry Request.
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• uniqueId – The globally unique identifier assigned by the On-Demand Document Source to this On-Demand Document Entry. It is used in the Retrieve Document Set transaction to identify the correct on-demand document to access.

The Registry actor shall store, and later include in metadata returned in a query response, the XDSDocumentEntry.repositoryUniqueId attribute along with other metadata attributes received in the Register On-Demand Document Entry [ITI-61] transaction.

The SubmitObjectsRequest may include any of the XDS concepts described in ITI TF-3: 4.1 except Stable Document Entries. Specifically, the message may include:

- XDS Submission Set exactly one shall be present.
- XDS Folder zero or more may be present.
- Document Relationships zero or more may be present. See ITI TF-3: Table 4.1-2.1 for a complete list of associations.
 - On-Demand Document Entry one or more shall be present.

There are no restrictions on the use of Document Relationship Associations within this transaction or as part of other transactions which may add or modify Document Relationship Associations with an On-Demand Document Entry. In particular, workflows which replace an On-Demand Document Entry with a Stable Document Entry, add an On-Demand Document Entry to a Folder, deprecate an On-Demand Document Entry or replace an On-Demand

Document Entry with a new On-Demand Document Entry are all valid.

3.61.4.1.3 Expected Actions

- 885 Upon receipt of a Register On-Demand Document Entry Request message, the Document Registry with the aid of the Registry Adaptor shall:
 - Accept all valid SubmitObjectsRequests
 - Perform metadata validations
 - Update the registry with the contained metadata
- Return a RegistryResponse message given the status of the operation

If the registry rejects the metadata, then the Document Registry shall:

• Return an error and indicate in the details of the response the type of error, see ITI TF-3: 4.1.13

• Roll back the request to register the document

895 **3.61.4.1.4.1 Basic Patient Privacy Enforcement Option**

If the Basic Patient Privacy Enforcement Option is implemented:

• The On-Demand Document Source actor shall populate the confidentialityCode in the document metadata with the list of OID values that identify the Patient Privacy Consent Policies that apply to the associated on-demand document. The confidentiality codes for

900 different On-Demand Document Entries in the same submission may be different.

- The On-Demand Document Source actor shall be able to be configured with the Patient Privacy Consent Policies, Patient Privacy Consent Policy Identifiers (OIDs) and associated information necessary to understand and enforce the XDS Affinity Domain Policy. The details of this are product specific and not specified by IHE.
- The On-Demand Document Source actor may have a user interface or business rule capabilities to determine the appropriate confidentiality codes for each On-Demand Document Entry. The details of this are product specific and not specified by IHE. However, the information about how confidentiality codes are assigned must be part of the published policy for the XDS Affinity Domain.

910 **3.61.4.1.5 Protocol Requirements**

The Register On-Demand Document Entry transaction shall use SOAP12. Furthermore:

- The Document Registry actor shall accept the Register On-Demand Document Entry Request formatted as a SIMPLE SOAP message and respond with the Register On-Demand Document Entry Response formatted as a SIMPLE SOAP message.
- The On-Demand Document Source actor shall generate the Register On-Demand Document Entry Request formatted as a SIMPLE SOAP message and accept the Register On-Demand Document Entry formatted as a SIMPLE SOAP message.

See ITI TF-2x: Appendix V for details.

3.61.4.2 Register On-Demand Document Entry Response

920 The Document Registry sends the result of processing the On-Demand Document Entry metadata to the On-Demand Document Source.

3.61.4.2.1 Trigger Events

The Document Registry finishes processing a Register On-Demand Document Entry Message and shall return a Register On-Demand Document Entry Response.

925 3.61.4.2.2 Message Semantics

The Register On-Demand Document Entry Response message shall carry the status of the requested operation and an error message if the requested operation failed. The conditions of

failure and possible error messages are given in the ebRS standard and detailed in ITI TF-3: 4.1.13 Error Reporting.

930 **3.61.4.2.3 Expected Actions**

The On-Demand Document Source now knows that the transaction succeeded/failed and can continue. The metadata added to the registry as a result of this transaction is now available for discovery.

3.61.5 Protocol Requirements

935 Implementors of this transaction shall comply with all requirements described in ITI TF-2x: Appendix V: Web Services for IHE Transactions.

ihe	urn:ihe:iti:xds-b:2007			
rs	urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0			
lcm	urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0			
query	urn:oasis:names:tc:ebxml-regrep:xsd:query:3.0			

WSDL Namespace Definitions

These are the requirements for the Register On-Demand Document Entry transaction presented in the order in which they would appear in the WSDL definition:

- The following types shall be imported (xsd:import) in the /definitions/types section:
 - namespace="urn:oasis:names:tc:ebxml-regrep:xsd:rs:3.0", schema=" rs.xsd"
 - namespace="urn:oasis:names:tc:ebxml-regrep:xsd:lcm:3.0", schema=" lcm.xsd"
- The /definitions/message/part/@element attribute of the Register On-Demand Document
- Entry Request message shall be defined as "lcm:SubmitObjectsRequest"
 - The /definitions/message/part/@element attribute of the Register Document Set-b Response message shall be defined as "rs:RegistryResponse"
 - The /definitions/portType/operation/input/@wsaw:Action attribute for the Register On-Demand Document Entry Request message shall be defined as
- 950 "urn:ihe:iti:2010:RegisterOnDemandDocumentEntry"
 - The /definitions/portType/operation/output/@wsaw:Action attribute for the Register On-Demand Document Entry Response message shall be defined as "urn:ihe:iti:2010:RegisterOnDemandDocumentResponse"
 - The /definitions/binding/operation/soap12:operation/@soapAction attribute shall be defined as "urn:ihe:iti:2010:RegisterOnDemandDocumentEntry"

These are the requirements that affect the wire format of the SOAP message. The other WSDL properties are only used within the WSDL definition and do not affect interoperability.

For informative WSDL for the Document Registry actor see ITI TF-2x: Appendix W.

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3.61.7 Security Considerations

960 Relevant XDS Affinity Domain Security background is discussed in the XDS Security Considerations Section (see ITI TF-1: 10.7).

3.61.7.1 Audit Record Considerations

The Register On-Demand Document Entry Transaction is PHI-Export event, as defined in ITI TF-2a: Table 3.20.6-1. The Actors involved in the transaction shall create audit data in conformance with DICOM (Supp 95) "Data Export", with the following exceptions.

965

	Field Name	Opt	Value Constraints
Event	EventID	М	EV(110106, DCM, "Export")
AuditMessage/	EventActionCode	М	"R" (Read)
EventIdentification	EventDateTime	М	not specialized
	EventOutcomeIndicator	М	not specialized
	EventTypeCode	М	EV("ITI-61", "IHE Transactions", "Register On-Demand Document Entry")
Source (On-Dema	and Document Source) (1)		
Human Requestor	r (0n)		
Destination (Docu	ument Registry) (1)		
Audit Source (On	-Demand Document Source) (1)		
Patient (1)			
SubmissionSet (1)		
Where:			
Source	UserID	U	<replyto></replyto>
AuditMessage/ ActiveParticipant	AlternativeUserID	М	the process ID as used within the local operating system in the local system logs.
	UserName	U	not specialized
	UserIsRequestor	М	"true"
	RoleIDCode	М	EV(110153, DCM, "Source")
	NetworkAccessPointTypeCode	М	"1" for machine (DNS) name, "2" for IP address
	NetworkAccessPointID	М	The machine name or IP address, as specified in RFC 3881.
Human	UserID	М	Identity of the human that initiated the transaction.
Requestor	AlternativeUserID	U	not specialized
(if known)	UserName	U	not specialized
AuditMessage/ ActiveParticipant	UserIsRequestor	М	"true"
	RoleIDCode	U	Access Control role(s) the user holds that allows this transaction.
	NetworkAccessPointTypeCode	NA	
	NetworkAccessPointID	NA	

3.61.7.1.1 On-Demand Document Source audit message:

Destination UserID M SOAP endpoint URI.

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AlternativeUserID	U	not specialized
UserName	U	not specialized
UserIsRequestor	М	"false"
RoleIDCode	М	EV(110152, DCM, "Destination")
NetworkAccessPointTypeCode	М	"1" for machine (DNS) name, "2" for IP address
NetworkAccessPointID	М	The machine name or IP address, as specified in RFC 3881.

Audit Source	AuditSourceID	U	Not specialized.
AuditMessage/	AuditEnterpriseSiteID	U	not specialized
AuditSourceldentificati on	AuditSourceTypeCode	U	not specialized

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Patient	ParticipantObjectTypeCode	М	"1" (person)
(AudittMessage/	ParticipantObjectTypeCodeRole	М	"1" (patient)
ParticipantObjectIde ntification)	ParticipantObjectDataLifeCycle	U	not specialized
	ParticipantObjectIDTypeCode	М	EV(2, RFC-3881, "Patient Number")
	ParticipantObjectSensitivity	U	not specialized
	ParticipantObjectID	М	the patient ID in HL7 CX format
	ParticipantObjectName	U	not specialized
	ParticipantObjectQuery	U	not specialized
	ParticipantObjectDetail	U	not specialized
Submission	ParticipantObjectTypeCode	М	"2" (System)
Set	ParticipantObjectTypeCodeRole	М	"20" (job)
(AudittMessage/ ParticipantObjectIde	ParticipantObjectDataLifeCycle	U	not specialized
ntification)	ParticipantObjectIDTypeCode	М	EV("urn:uuid:a54d6aa5-d40d-43f9-88c5-b4633d873bdd", "IHE XDS Metadata", "submission set classificationNode")
	ParticipantObjectSensitivity	U	not specialized
	ParticipantObjectID	М	The submissionSet unique ID
	ParticipantObjectName	U	not specialized
	ParticipantObjectQuery	U	not specialized
	ParticipantObjectDetail	U	not specialized

3.61.7.1.2 Document Registry audit message:

	Field Name	Opt	Value Constraints	
Event	EventID	М	EV(110107, DCM, "Import")	
AuditMessage/ EventIdentification	EventActionCode	М	"C" (Create)	
Eventidentification	EventDateTime	М	not specialized	
	EventOutcomeIndicator	М	not specialized	
	EventTypeCode	М	EV("ITI-61", "IHE Transactions", "Register On-Demand Document Entry")	
Source (On-Demand Document Source) (1)				
Destination (Doc	ument Registry) (1)			
Audit Source (Document Registry) (1)				
Patient (1)				

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SubmissionSet (1)					
Where:					
Source	UserID	U	<replyto></replyto>		
AuditMessage/	AlternativeUserID	U	not specialized		
ActiveParticipant	UserName	U	not specialized		
	UserIsRequestor	М	"true"		
	RoleIDCode	М	EV(110153, DCM, "Source")		
	NetworkAccessPointTypeCode	М	"1" for machine (DNS) name, "2" for IP address		
	NetworkAccessPointID	М	The machine name or IP address, as specified in RFC 3881.		

Destination	UserID	М	SOAP endpoint URI
AuditMessage/ ActiveParticipant	AlternativeUserID	М	the process ID as used within the local operating system in the local system logs.
	UserName	U	not specialized
	UserIsRequestor	М	"false"
	RoleIDCode	М	EV(110152, DCM, "Destination")
	NetworkAccessPointTypeCode	М	"1" for machine (DNS) name, "2" for IP address
	NetworkAccessPointID	М	The machine name or IP address, as specified in RFC 3881.

Audit Source	AuditSourceID	U	Not specialized.
AuditMessage/ AuditSourceldentificati on	AuditEnterpriseSiteID	U	not specialized
	AuditSourceTypeCode	U	not specialized

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Patient	ParticipantObjectTypeCode	М	"1" (person)
(AudittMessage/ ParticipantObjectIdenti fication)	ParticipantObjectTypeCodeRole	М	"1" (patient)
	ParticipantObjectDataLifeCycle	U	not specialized
	ParticipantObjectIDTypeCode	М	EV(2, RFC-3881, "Patient Number")
	ParticipantObjectSensitivity	U	not specialized
	ParticipantObjectID	М	the patient ID in HL7 CX format
	ParticipantObjectName	U	not specialized
	ParticipantObjectQuery	U	not specialized
	ParticipantObjectDetail	U	not specialized
Submission	ParticipantObjectTypeCode	М	"2" (System)
Set	ParticipantObjectTypeCodeRole	М	"20" (job)
(AudittMessage/ ParticipantObjectIdenti	ParticipantObjectDataLifeCycle	U	not specialized
fication)	ParticipantObjectIDTypeCode	М	EV("urn:uuid:a54d6aa5-d40d-43f9-88c5-b4633d873bdd", "IHE XDS Metadata", "submission set classificationNode")
	ParticipantObjectSensitivity	U	not specialized
	ParticipantObjectID	М	The submissionSet unique ID
	ParticipantObjectName	U	not specialized
	ParticipantObjectQuery	U	not specialized
	ParticipantObjectDetail	U	not specialized

4 Cross-Transaction Specifications

Vol. 3: Add new section 4.1.2.1

4.1.2.1 XDSDocumentEntry Types

- 980 There are two XDSDocumentEntry Types: Stable Document Entry and On-Demand Document Entry. The following sections describe these types in detail and refer to identifiers of various types. How these identifiers are used and relate to each other is central to understanding the mechanisms used to describe and retrieve content.
- Stable DocumentEntry uniqueID is the identifier found in the uniqueID metadata field of a Stable DocumentEntry. It is a unique identifier for the entry and also uniquely defines the document associated with the entry. It is used in a retrieve request to identify which specific document should be retrieved.
 - CDA Header id Every HL7 CDA R2 document header includes a value for the ClinicalDocument/id field which uniquely identifiers the document. This value is always the
- 990 same as the DocumentEntry uniqueID for the Stable Document Entry which contains metadata about this document. Although we address CDA specifically in the explanation, the concepts also apply to any type of document content where a unique identifier exists in a code field within the document. Some document content does not include a unique identifier so these explanations do not apply to that situation.
- On-Demand DocumentEntry uniqueID is the identifier found in the uniqueID metadata field of an On-Demand Document Entry. It is a unique identifier for the entry but does not identify any document.

4.1.2.1.1 Stable DocumentEntry

- A Stable Document Entry contains metadata about an already created document available for retrieval. This document is stable because the contents have been effectively combined in the exact representation that will be returned in a Retrieve Document Set. A Stable Document Entry is an XDSDocument Entry with objectType equal to the UUID for Stable (see 4.3.1.2 for the UUID) and availabilityStatus = Approved or Deprecated. All metadata fields contain valid values. If the document returned on a retrieve request is CDA, it will have in the ClinicalDocument/id in the HL7 CDA B2 header the same value of the DocumentEntry
- 1005 ClinicalDocument/id in the HL7 CDA R2 header the same value of the DocumentEntry uniqueId.

4.1.2.1.2 On-Demand Document Entry

An On-Demand Document Entry provides a unique identifier which can be used to create an ondemand document which collects the latest, most recent available information at the time of

1010 retrieval. On-Demand Document Entries never reflect actual document content, but rather the potential for a document with the characteristics described in the metadata of the entry. An On-Demand Document Entry may be replaced and deprecated. If an On-Demand Document Entry is

deprecated, the retrieval through Retrieve Document Set [ITI-43] of that uniqueID may not have most recent information and should return an error.

1015 The uniqueID associated with an On-Demand Document Entry will never represent an actual document. A retrieve request specifying an On-Demand Document Entry uniqueID will return content identified by a uniqueID different than the specified uniqueID.

Every On-Demand Document Entry with the same uniqueID will refer to the same potential content. Actual content depends on the time of retrieval. The On-Demand Document Entry

1020 uniqueID is valid for as long as the entry has availabilityStatus=Approved. The holder of the uniqueID may re-use it in a retrieve request to get the latest information, without the need for an additional query.

When a retrieve request is received specifying an On-Demand Document Entry uniqueID, the responder may choose to persist the document generated as a result and allow the requestor

1025 future access to the metadata and document. This capability is declared through the Persistence of Retrieved Documents option on the On-Demand Document Source and Responding Gateway Actors. The persistence refers not only to the saving of the content for re-use, but more specifically, to the ability of the requester to use retrieve to access that exact, possibly now historic, content and use a query to get metadata about the content.

1030

Vol. 3: Update the following sentence with section 4.1.3.1 as follows:

4.1.3.1 XDS Registry Submission Request

(...)

This request is part of the Register Document Set-b [ITI-42] <u>and Register On-Demand</u> 1035 <u>Document Entry [ITI-61]</u> transactions.

Vol. 3: Update selected rows in Table 4.1-5 as follows:

creationTime	Represents the time the author created the document in the Document Source. Shall have a single value.	R/R	DTM
	If this attribute is received in a Register On-Demand Document Entry [ITI-61] transaction the Document Registry shall return anXDSRegistryMetadataError.		
	<rim:slot name="creationTime"></rim:slot>		
hash	Hash key of the XDS Document itself. This value is computed by the Document Repository and used by the Document Registry for detecting the	Cp/P	SHA1 hash

	improper resubmission of XDS Documents. If present, shall have a single		
	value.		
	If this attribute is received in a Provide & Register Document Set-b [ITI-41]		ITI TF-2.b:
	transaction, it shall be verified by the repository with the actual hash value of the submitted document; an XDSRepositoryMetadataError shall be returned on		3.41.4.1
	mismatch		5.41.4.1
	<u>If this attribute is received in a Register On-Demand Document Entry</u> [ITI-61] transaction the Document Registry shall return an		
	<u>XDSRegistryMetadataError.</u>		
	<rim:slot name="hash"></rim:slot>		
	<pre><rim:valuelist></rim:valuelist></pre>		
	<rim:value></rim:value>		
	da39a3ee5e6b4b0d3255bfef95601890afd80709		
			_
repositoryUniqueId	The globally unique identifier of the repository where the document <u>referenced</u> <u>by the Document Entry can be accessedis stored</u> , assigned by the Document	Cp/P	
	Repository or <u>On-Demand Document Source</u> . This unique identifier for the	-	ITL TE OL
	Document Rrepository may be used to identify and connect to the specific		ITI TF-2b:
	Document R <u>r</u> epository where the document is <u>retrieved from</u> stored once its metadata has been retrieved from a Document Registry.		3.41.4.1
	This repositoryUniqueId is intended to respond to the following types of usage:		3.42.4.1.2
	The means to reference the Document Repository <u>or On-Demand Document</u> Source where this XDS document is <u>retrieved from</u> stored. The repositoryUniqueId represents an immutable id for the Document Repository <u>or On-Demand Document Source</u> .		
	The means to ensure that a XDS Document is retrieved from the appropriate Document Repository or On-Demand Document Source.		
	Shall have a single value.		
	<rim:slot name="repositoryUniqueId"></rim:slot>		
	<rim:valuelist></rim:valuelist>		
	<pre><rim: value="">1.3.6.1.4</rim:></pre>		
·			
serviceStartTime	Represents the start time the service being documented took place (clinically significant, but not necessarily when the document was produced or approved). This may be the same as the encounter time in case the service was delivered during an encounter. Encounter time is not coded in XDS metadata but may be coded in documents managed by XDS. This time is expressed as (date/time/UTC). If present, shall have a single value.	R2/R	HL7 V2 DTM
	Note: Other times, such as document creation or approval are to be recorded, if needed, within the document.		
	Note: For On-Demand Document Entries this attribute represents the earliest time health service was rendered for which data is available on- demand. For some On-Demand Document Sources this attribute is not applicable and so would not be present		
	<rim:slot name="serviceStartTime"></rim:slot>		
		l	

	com Wale of into		
	<rim:valuelist></rim:valuelist>		
	<rim:value>20041225212010</rim:value>		
· · · · · · · · · · · · · · · · · · ·			
serviceStopTime	Represents the stop time the service being documented took place (clinically significant, but not necessarily when the document was produced or approved). This may be the same as the encounter time in case the service was delivered during an encounter. Encounter time is not coded in XDS metadata but may be coded in documents managed by XDS. This time is expressed as (date/time/UTC). If the Service happens at a point in time, this attribute shall contain the same value as the serviceStartTime. If present, shall have a single value.	R2/R	HL7 V2 DTM
	<u>Note: For On-Demand Document Entries this attribute represents the</u> <u>most recent time health service was rendered for which data is available</u> <u>on-demand. For most On-Demand Document Sources this attribute is not</u> <u>applicable and so would not be present.</u>		
	<rim:slot name="serviceStopTime"></rim:slot>		
	<rim:valuelist></rim:valuelist>		
	<rim:value>20041225232010</rim:value>		
size	Size in bytes of the byte stream that was provided in the Register and Provide Transaction and stored by the XDS Document Repository. This value is computed by the Document Repository and included in the Register Documents Set Transaction. If present, shall have a single value.	Cp/P	Integer
	If this attribute is received in a Provide and Register Document Set-b [ITI-41] transaction it shall be ignored.		ITI TF-2b:
	If this attribute is received in a Register On-Demand Document Entry [ITI-61] transaction the Document Registry shall return an XDSRegistryMetadataError.		3.41.4.1
	<rim:slot name="size"></rim:slot>		
	<rim:siot name="size"> <rim:valuelist></rim:valuelist></rim:siot>		
	<rim: value="">3654</rim:>		
	3034		
uniqueId	The globally unique identifier assigned by the document creator to this document. This unique identifier may be used in the body of other XDS	R/R	See ITI TF-
	Documents to reference this document. The length of Unique Identifier shall not exceed 128 bytes. The structure and format of this Id shall be consistent with the specification corresponding to the format attribute. (e.g., for a DICOM standard document a 64 character numeric UID, for an HL7 CDA format a serialization of the CDA Document id extension and root in the form oid^extension, where OID is a 64 digits max, and the ID is a 16 UTF-8 char max). If the oid is coded without the extension then the '^' character shall not be included.		3: 4.1.7.2
	This uniqueId is intended to respond to the following types of usage:		
	The means to reference this XDS document from within the content of another document. Neither the XDS Registry nor the Repository is aware of such		

	[
references, but the Document Sources and Consumers are.	
<u>The use of uniqueId in On-Demand Document Entries is different as this</u> <u>value will never represent an actual document. See ITI TF-3:4.1.2.1 for</u> <u>more details regarding use of uniqueId by On-Demand Document Entries.</u>	
Shall have a single value.	
<rim:externalidentifier< td=""><td></td></rim:externalidentifier<>	
identificationScheme= "urn:uuid:2e82c1f6-a085-4c72-9da3-8640a32e42ab"	
value="1.3.6.1.4.1.21367.2005.3.7^11379"	
id="ID_054"	
objectType="urn:oasis:names:tc:ebxml- regrep:ObjectType:RegistryObject:ExternalIdentifier" >	
<rim:name></rim:name>	
<rim:localizedstring value="XDSDocumentEntry.uniqueId"/></rim:localizedstring 	

1040

Vol. 3: Add the new UUID for On-Demand Document Entries to section 4.3.1.2

4.3.1.2 Document Entry Object

UUID	Use/meaning
urn:uuid:7edca82f-054d-47f2-a032-9b2a5b5186c1	XDSDocumentEntry ClassificationNode objectType for Stable Document Entries
urn:uuid:34268e47-fdf5-41a6-ba33-82133c465248	XDSDocumentEntry objectType for On- Demand Document Entries