IHE Change Proposal

Tracking information:

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| IHE Domain | PCC |
| Change Proposal ID: | CP-PCC-211 |
| Change Proposal Status: | Assigned |
| Date of last update: | 2/24/15 |
| Person assigned: | Keith Boone |

Change Proposal Summary information:

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| * 1. Content Creator/Content Consumer Cleanup | |
| Submitter’s Name(s) and e-mail address(es): | Keith Boone |
| Submission Date: | 2/24/15 |
| Integration Profile(s) affected: | All PCC CDA Content Profiles, RECON, MCV |
| Actor(s) affected: | Content Creator, Content Consumer, Reconciliation Agent |
| IHE Technical Framework or Supplement modified: | PCC Technical Framework |
| Volume(s) and Section(s) affected: | PCC Technical Framework Volume 1,  PCC Technical Framework Volume 2 |
| Rationale for Change:  This is needed to clean up existing actors for PCC Content Profiles, and to support Reconciliation (RECON) and Multi-Content View, as well as support actor reuse in ITI and QRPH.  The Content Creator and Content Consumer actors in the PCC Technical Framework reference a generalized set of options to View, Import Documents, Sections, or Detailed Data. These options have been written in a CDA centric fashion, which prevents them from being reused in content profiles using other standards (e.g., PDF, DICOM or other standard).  These options affect the content consumer behavior in the context of content sharing; however, there is no transaction that sets the context for sharing and behaviors.  The Content Creator and Content Consumer actors do not reference their use for exchange of content in a transport independent fashion.  The CP turns section 3.1 into a transaction [PCC-1] Sharing Documents, to set the context for use of the options and to enable behaviors to be defined for these actors. We have not strictly followed the transaction format in order to preserve section numbering. While other transactions (i.e., QED) previously referenced PCC-1, we felt that since that profiles were still in trial implementation it would be cleaner to renumber those transactions. No other profiles are affected by the transaction numbering change.  Merged From CP-204   1. Change Add section 3.1 to Change section 3.1 in RECON Supplement 2. See new text in CP below which shows what has changed    1. Fixed the numbering structure on the View Option    2. Used language consistent with ITI instead of XD\* 3. Added Content Creator and Consumer expected behaviors 4. Addressed in the text below. 5. Yes we as a committee agreed to this change after careful debate over several meetings,    1. We will produce a CP to correct QED    2. This will be subject to the same careful consideration. It is unlikely that a problem that has been following us and has been attempted to be resolved for four years will occur two years from now.    3. No we do not expect to change somebody else web pages, the transactions in TI are always subject to change. | |
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Volume 1 – Integration Profiles

Change Appendix A Actor Definitions

Appendix A Actor Definitions

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| * 1. Actor | * 1. Definition |
| Content Creator | The Content Creator Actor is responsible for the creation of content and transmission to a Content Consumer. |
| Content Consumer | A Content Consumer Actor is responsible for viewing, import, or other processing of content created by a Content Creator Actor. |

Volume 2 – Transactions

Change Section 3.1

## 3.1 [PCC-1] ~~Cross Enterprise~~ Document Sharing ~~Content Transactions~~

At present, all transactions used by the PCC Content Profiles to exchange content are independent of transport ~~appear in IHE ITI TF-2~~. General options defined in content profiles for a Content Consumer or Content Creator are described below. There are no profile specific behaviors in this transaction, these behaviors are defined in the content profiles which utilize these actors.

Content Creator

Content Consumer

**Actor:** Content Creator

**Role:** Create document(s) to be exchanged between two actors.

**Actor:** Content Consumer

**Role:** Consume document(s) that has been exchanged between two actors

Documents are created by a Content Creator and consumed by a Content Consumer.

The sharing or transmission of content from one actor to the other is addressed by grouping with appropriate actors from IHE profiles such as:

* Cross Enterprise Document Sharing (XDS)
* Cross Enterprise Document Sharing on Media (XDM)
* Cross Enterprise Document Sharing Reliable Exchange (XDR)
* Cross Community Access (XCA)
* Multi-Patient Query (MPQ)
* Mobile Access to Health Documents (MHD)
* Request Form for Data Capture (RFD)
* others as appropriate

The population of metadata in the transport from the created content to the IHE transaction that shares it must be described in a Content Binding. Bindings for Document Sharing transactions such as XDS, XCA, XDR and XDM has been described in the section on Content Bindings in IHE PCC TF-2:4. Other IHE profiles (e.g., RFD and MHD) may also be used to exchange content.

**Content Creator Expected Actions**

1. The Content Creator will create the document according to the content profile that is specified by the actor in the profile where it is used.
2. The content will be shared using appropriate actors from IHE profile it is grouped with as described above.

**Content Consumer Expected Actions**

1. The Content Consumer shall access documents using appropriate actors from the IHE profile it is grouped with as described above.
2. The Content Consumer shall support processing of the document as needed by the profile. The Content Consumer options below may be referenced by the profile where this actor is used to provide specific processing requirements.

### 3.1.1 Content Consumer View Option

A Content Consumer that supports the View Option shall be able to:

1. Use the appropriate ~~XD\*~~Document Sharing transactions to obtain the document along with associated necessary metadata.
2. Render the document for viewing.

When a CDA Document is used, this rendering shall meet the requirements defined for CDA Release 2 content presentation semantics (See Section 1.2.4 of the CDA Specification: Human readability and rendering CDA Documents). CDA Header information providing context critical information shall also be rendered in a human readable manner. This includes at a minimum the ability to render the document with the stylesheet specifications provided by the document source, if the document source provides a stylesheet. Content Consumers may optionally view the document with their own stylesheet, but must provide a mechanism to view using the source stylesheet.

1. ~~Support traversal of links for documents that contain links to other documents managed within the sharing framework.~~
2. ~~Print the document to paper.~~

### 3.1.2 Content Consumer Document Import Option

This option requires that the View Option be supported by the Content Consumer. In addition, the Content Consumer that supports the Document Import Option shall be able to support the storage of the entire document (as provided by the sharing framework, along with sufficient metadata to ensure its later viewing) both for discharge summary or referral documents. This option requires the proper tracking of the document origin. Once a document has been imported, the Content Consumer shall offer a means to view the document without the need to retrieve it again from the sharing framework. When viewed after it was imported, a Content Consumer may choose to access the sharing framework to find out if the related Document viewed has been deprecated, replaced or addended.

Note: For example, **~~when using XDS,~~** a Content Consumer **grouped with an XDS Document Consumer** may choose to query the Document Registry about a document previously imported in order to find out if this previously imported document may have been replaced or has received an addendum. This capability is offered to Content Consumers by this **Option** **~~Integration Profile~~**, but not required, as the events that may justify such a query are extremely implementation specific.

### 3.1.3 Content Consumer Section Import Option

This option requires that the View Option be supported by the Content Consumer. In addition, the Content Consumer that supports the Section Import Option shall be able to support the import of one or more sections of the document (along with sufficient metadata to link the data to its source). This option requires the proper tracking of the document section origin. Once sections have been selected, a Content Consumer shall offer a means to copy the imported section(s) into local data structures as free text. This is to support the display of section level information for comparison or editing in workflows such as medication reconciliation while discrete data import is not possible. When viewed again after it is imported, a Content Consumer may choose to access the sharing framework to find out if the related information has been updated.

Note: For example, **~~when using XDS,~~** a Content Consumer **grouped with an XDS Document Consumer** may choose to query the Document Registry about a document whose sections were previously imported in order to find out if this previously imported document may have been replaced or has received an addendum. This capability is offered to Content Consumers by this **Option ~~Integration Profile~~**, but not required, as the events that may justify such a query are extremely implementation specific.

This Option does not require, but does not exclude the Content Consumer from offering a means to select and import specific subsets of the narrative text of a section.

### 3.1.4 Content Consumer Discrete Data Import Option

This option does not require that the View, Import Document or Section Import Options be supported by the Content Consumer. The Content Consumer that supports the Discrete Data Import Option shall be able to support the storage of the structured content of one or more sections of the document. This Option requires that the user be offered the possibility to select among the specific sections that include structured content a set of clinically relevant record entries (e.g., a problem or an allergy in a list) for import as part of the local patient record with the proper tracking of its origin.

Note: The Discrete Data Import Option does not require the support of the View, Import Document or Import Sections Options so that it could be used alone to support implementations of Content Consumers such as Public Health Data or Clinical Research systems that might aggregate and anonymize specific population healthcare information data as Document Consumer Actors, but one where no care provider actually views the medical summaries.

When discrete data is accessed after it was imported, a Content Consumer may choose to check if the document related to the discrete data viewed has been deprecated, replaced or addended.

A Content Consumer Actor grouped with the XDS Document Source Actor may query the Document Registry about a document from which discrete data was previously imported in order to find out if this previously imported document may have been replaced or has received an addendum. ~~This capability is offered to Content Consumers by this Integration Profile, but not required, as the events that may justify such a query are extremely implementation specific.~~

# 4 IHE Patient Care Coordination Bindings

This section describes how the payload used in a transaction of an IHE profile is related to and/or constrains the data elements sent or received in those transactions. This section **~~is~~** **applies** where any specific dependencies between the content and transaction are defined.

A content integration profile can define multiple bindings. Each binding should identify the transactions and content to which it applies.