

About a mapping proposal from FRBRoo to SharedCanvas



Stefanie Gehrke, Biblissima, 28th FRBR-CIDOC CRM Harmonization meeting, Prato/Italy, 25th February 2016

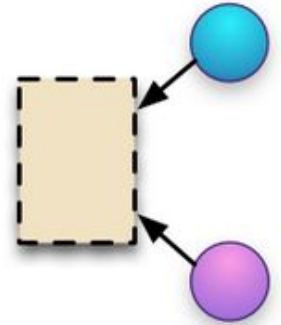
What is SharedCanvas / IIIF ?

- Shared Canvas Data Model is based on OA
- Two main APIs

sc : <http://iiif.io/api/presentation/2/context.json>

iiif : <http://iiif.io/api/image/2/context.json>

- Editors: Robert Sanderson, Los Alamos National Laboratory; Benjamin Albritton, Stanford University – Robert Sanderson, today Stanford University, is also editor of the OA Data Model



Goals of SharedCanvas / IIIF

- To give scholars an unprecedented level of uniform and rich access to **image-based resources** hosted around the world.
- To define a set of common application programming interfaces that support interoperability between image repositories.
- To develop, cultivate and document shared technologies, such as image servers and web clients, that provide a world-class user experience in viewing, comparing, manipulating and annotating images.

numériques en haute définition de manuscrits et d'imprimés anciens. Cette grande bibliothèque virtuelle permettra de consulter avec les mêmes outils la [Bibliothèque virtuelle des manuscrits médiévaux](#), [Gallica](#), les [Bibliothèques virtuelles humanistes](#)... À partir de ce premier noyau, l'objectif est de permettre une navigation aisée et unifiée dans un ensemble large de bibliothèques virtuelles au niveau national et au niveau international.

[Haut de page](#)

Cluster de bases de données

Le deuxième ensemble est un **cluster virtuel de bases de données** décrivant et analysant la transmission des livres, des textes, des images, en relation avec les entrepôts numériques d'images et la plate-forme d'édition électronique.

Les bases de données traitant d'histoire des textes ou des manuscrits sont nombreuses : le cluster vise à les **rapprocher et les faire dialoguer toutes.**

Les partenaires de Biblissima peuvent ainsi verser leurs données dans les bases les plus adaptées à leur objet et à leur thématique de travail, tout en ayant accès aux enrichissements apportés par les autres bases interconnectées. Cet outil doit permettre des **interrogations transversales jusqu'alors impossibles sur le web**, mais respectant la structure propre à chaque base.

Outils d'édition électronique de sources anciennes

Le troisième ensemble vise à produire des **outils ergonomiques et génériques d'édition électronique** adaptés à divers besoins (édition critique, catalogage, etc.), afin de faciliter la **transcription et/ou l'édition**, de manière évolutive et collaborative, de tout texte médiéval (et moderne), en relation avec les données issues des



open source

Workflow



Why a Mapping Proposal - Biblissima's Needs

Manuscripts > France, Paris, Bibliothèque nationale de France, Arabe 1184

Export RDF (XML - N3)

France, Paris, Bibliothèque nationale de France, Arabe 1184



cote complète : France, Paris, Bibliothèque nationale de France, Arabe 1184

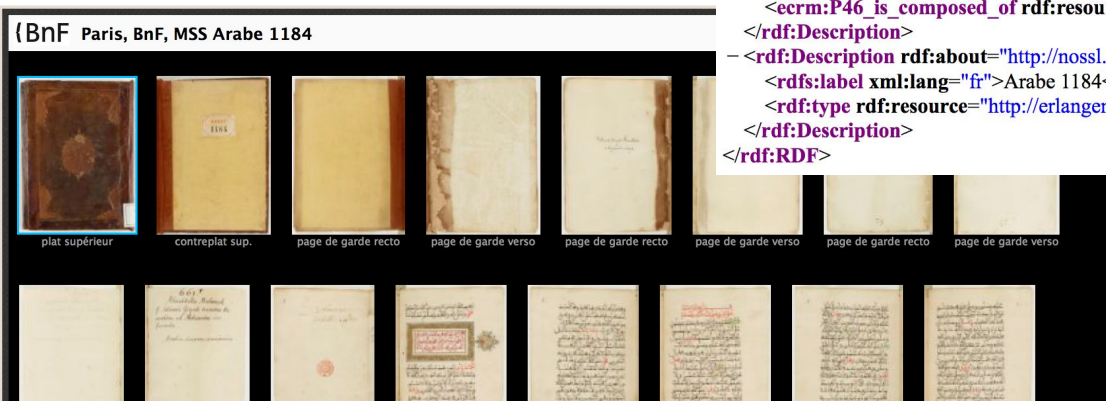
conservé à : Paris, Bibliothèque nationale de France

issu de : Mandragore

lien vers la notice : <http://archivesetmanuscripts.bnf.fr/ead.html?id=FRBNFEAD000038684>

numérisation : <http://gallica.bnf.fr/ark:/12148/btv1b8419214v>

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<rdf:RDF>
- <rdf:Description rdf:about="http://noss1.demo.logilab.fr/biblissima/id/Manuscript/Mandragore/69">
  <ecrm:P48_has_preferred_identifier rdf:resource="http://noss1.demo.logilab.fr/biblissima/id/Shelfmark/Mandragore/69"/>
  <ecrm:P50_has_current_keeper rdf:resource="http://noss1.demo.logilab.fr/biblissima/library/1526"/>
  <rdf:type rdf:resource="http://erlangen-crm.org/efrbroo/F4_Manifestation_Singleton"/>
  <ecrm:P70i_is_documented_in rdf:resource="http://mandragore.bnf.fr/jsp/AfficheNoticeManArk.jsp?id=69"/>
  <efrbroo:R31i_has_reproduction rdf:resource="http://gallica.bnf.fr/ark:/12148/btv1b8419214v"/>
  <ecrm:P46_is_composed_of rdf:resource="http://noss1.demo.logilab.fr/biblissima/id/Component/Mandragore/85"/>
</rdf:Description>
- <rdf:Description rdf:about="http://noss1.demo.logilab.fr/biblissima/id/Shelfmark/Mandragore/69">
  <rdfs:label xml:lang="fr">Arabe 1184</rdfs:label>
  <rdf:type rdf:resource="http://erlangen-crm.org/current/E42_Identifier"/>
</rdf:Description>
</rdf:RDF>
```



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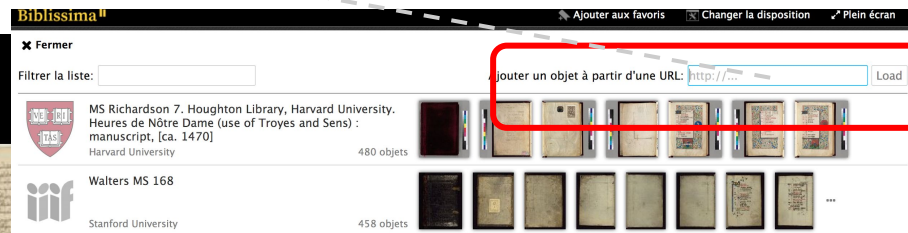
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(BnF Paris, BnF, MSS Arabe 1184



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    <ecrm:P70i_is_documented_in rdf:resource="http://mandragore.bnf.fr/jsp/AfficheNoticeManArk.jsp?id=69"/>
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  </rdf:Description>
</rdf:RDF>
```



Work done by Europeana + Europeana Cloud

Europeana aligns with the International Image Interoperability Framework (IIIF)

Author: [Valentine Charles](#), [Antoine Isaac](#) 8 mins to read

8 February 2016 [europeanatech](#) [R&D](#) [0 Comments](#)

One of Europeana's main goals is to make it easier for institutions and individuals in the digital heritage sector to share better quality digital content - you can learn more in our recently published [Europeana Publishing Framework](#).

The International Image Interoperability Framework (IIIF) has huge potential to help us achieve this goal. If you're not familiar with it, IIIF is a standard for serving and consuming high quality images online, with the ability to instruct a server about the desired resolution, or image manipulations such as rotation and zooming. It also makes it more straightforward to publish complex aggregations of images, for instance bringing together a [medieval manuscript text and an illumination that was stripped away from it](#).



Emmanuelle Bermes
@figoblog

Europeana aligns with IIIF
pro.europeana.eu/blogpost/europ...

RETWEETS
3



05:21 - 22 févr. 2016



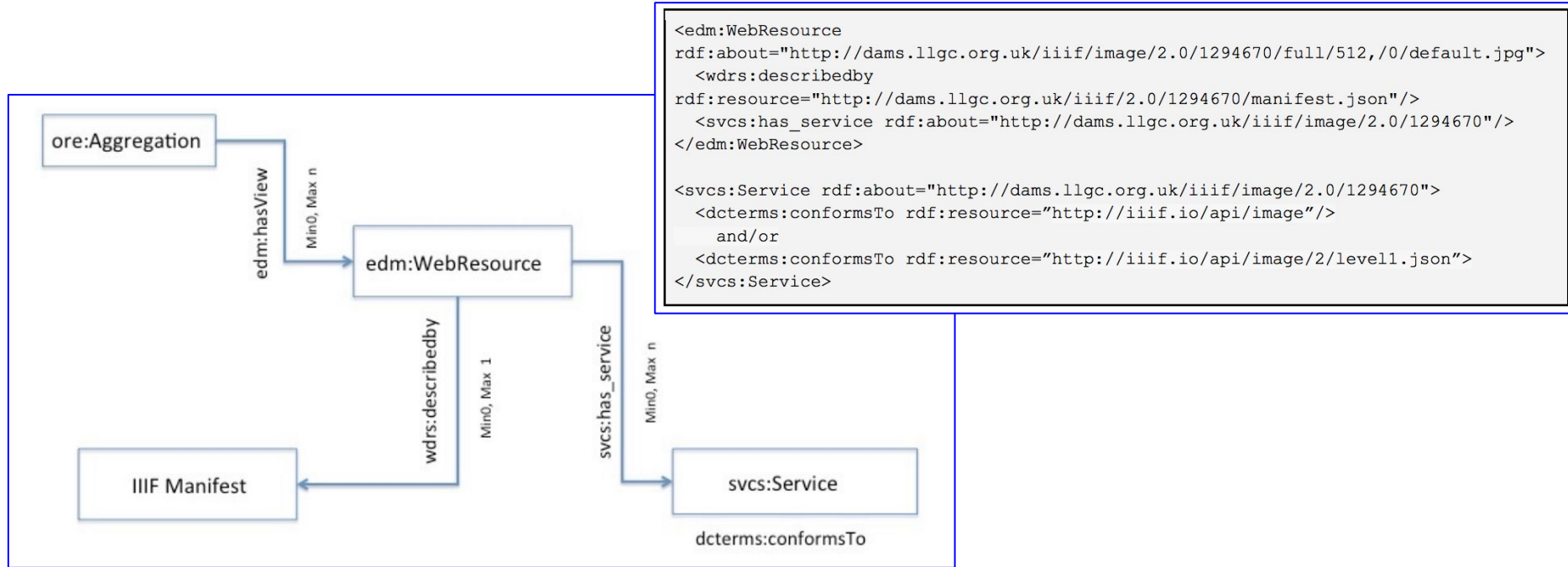
DELIVERABLE

Project Acronym: Europeana Cloud
Grant Agreement number: 325091
Project Title: Europeana Cloud: Unlocking Europe's Research via The Cloud

D4.4 Recommendations for enhancing EDM to represent digital content

[Recommendations for enhancing EDM to represent digital content](#)

Work done by Europeana + Europeana Cloud



Core Classes of Shared Canvas / IIIF



Core Classes of Shared Canvas / IIIF

sc:Canvas

- “A Shared Canvas is a two dimensional rectangular space with an aspect ratio that represents a single logical view of some part of the physical item.”

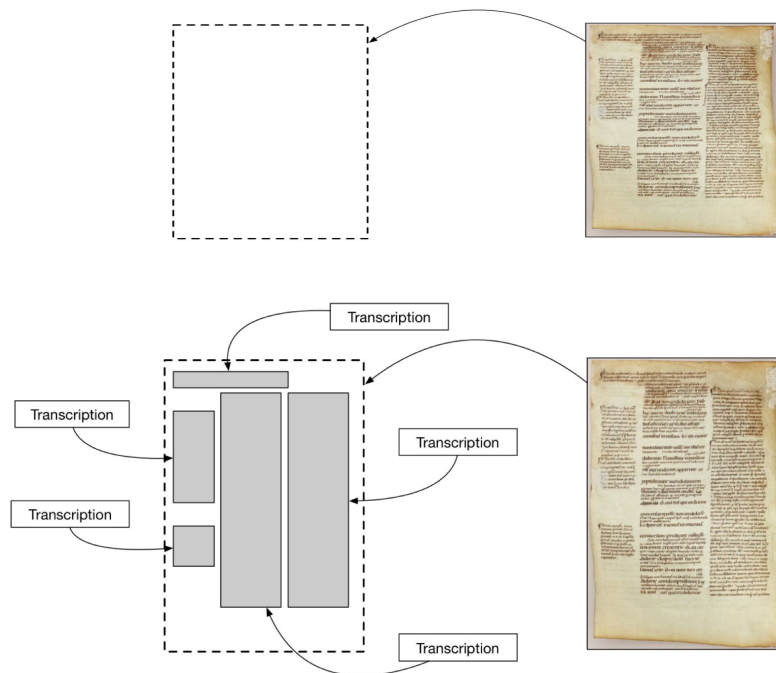
sc:Range

sc:Sequence

sc:Manifest

sc:Collection

- “A virtual container that represents a page or view and has content resources associated with it or with parts of it (...) provides a frame of reference for the layout of the page (...) the display starts from a blank canvas and images, text and other resources are “painted” on to it.”



Core Classes of Shared Canvas / IIIF

sc:Canvas

- a JSON-LD file

sc:Range

sc:Sequence

sc:Manifest

sc:Collection

- “The Manifest is what **ties everything together**. It is an **Aggregation of the Layers, AnnotationLists and Sequences that make up the description of the facsimile**. As such the **Manifest is representative of the Book, Newspaper, Scroll or whatever physical object is being represented in the facsimile**.”
- “The manifest resource **represents a single object and any intellectual work or works embodied within that object**. In particular it **includes the descriptive, rights and linking information for the object**. It then embeds the sequence(s) of canvases that should be rendered to the user.”

Point of Contact : JPEG2000

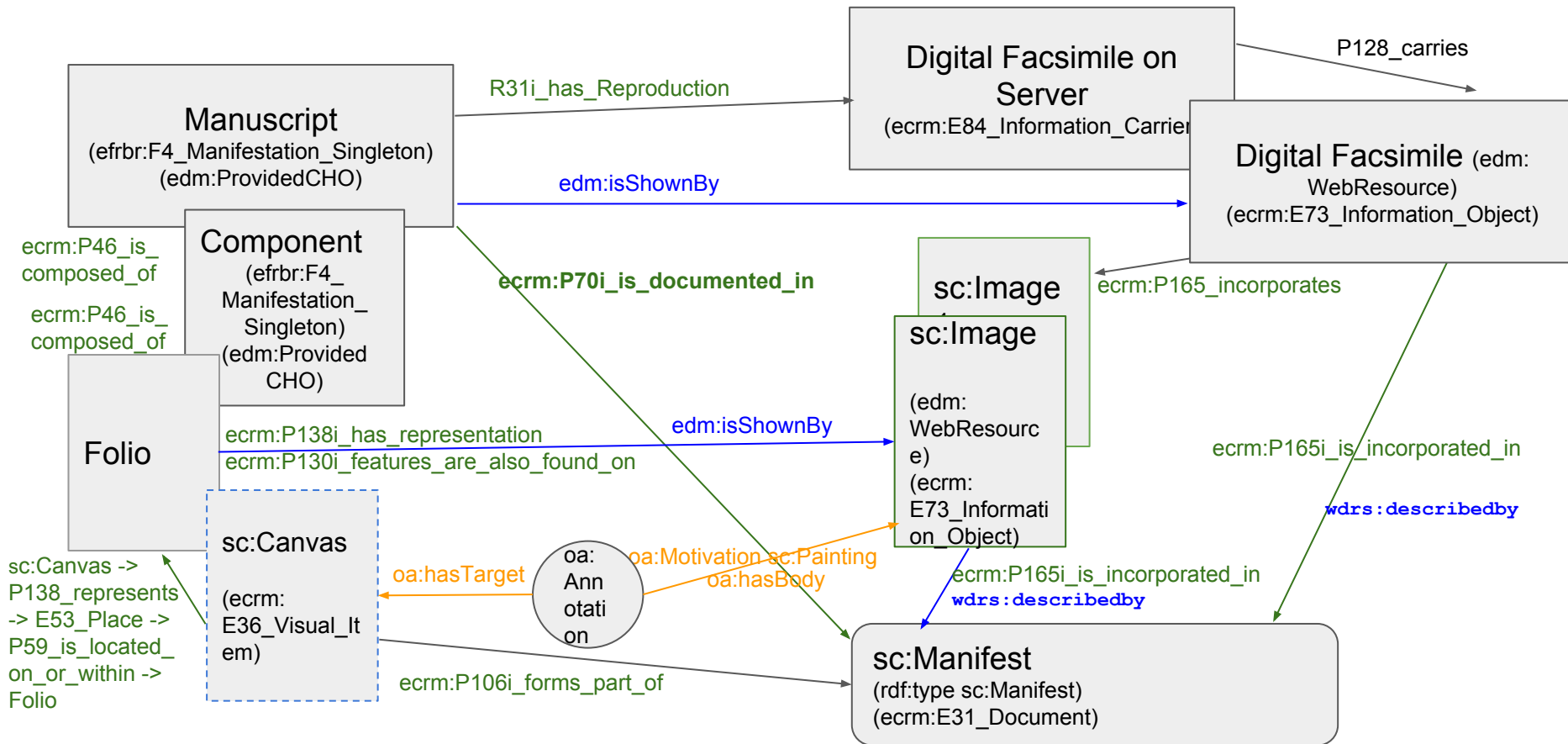
FRBRoo :

Manuscript (F4) -> R31i_has_Reproduction -> Digital Facsimile on Server BNF (E84) -> P128_carries -> Imagefile and **JPEG2000** (E73_Information_Object)

SharedCanvas :

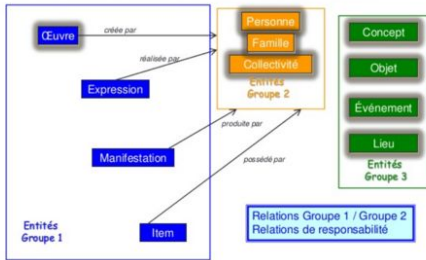
? (Manuscript) -> ? (is represented by) -> sc:Manifest (JSON-LD file containing f.ex. a number of “**Image Annotations**” that are painted on a “sc:Canvas”) -> sc:hasCanvases -> rdf:List

SharedCanvas + FRBRoo (+ EDM) - SCRATCH

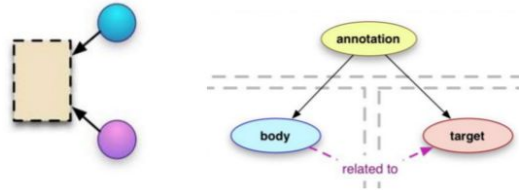


Thank you ...

FRBRoo



Shared Canvas Data Model
1.0, 14 February 2013



... what would your
solution look like ?



- sc:Manifest
- sc:Sequence
- sc:Range
- sc:Canvas
- sc:Annotation
- images
- otherContent

The **slides 13 and 14** were
updated after discussions
with the CRM experts
Stephen Stead and Dominic
Oldman at Prato. Thanks !