



Ecole d'ingénieurs et d'architectes de Fribourg
Hochschule für Technik und Architektur Freiburg

Diploma project

Infoscience
Synthesis
Dataflows
Invenio <-> Curator

Sylvain Egger

25 september 2007



Index

| | | |
|----------|--|----------|
| 1 | <i>Introduction</i> | 3 |
| 2 | <i>Dataflows</i> | 4 |
| 2.1 | Global view | 4 |
| 2.2 | Specific view interns in Invenio | 5 |
| 2.3 | Specific view interns in Curator | 6 |



1 Introduction

For the new structure of Curator, it's important to make a good reflexion about the communication between Invenio and Curator. These dataflows are determinant to define the structure because all module of Curator will intervene on publication present in Invenio's database.



2 Dataflows

2.1 Global view

The dataflows between Invenio and Curator will be XML MARC data.

Invenio will receive requests by Curator. These requests will return one or more publications according to entry parameters. Curator will carry out these data to return to Invenio the corrections to be made.

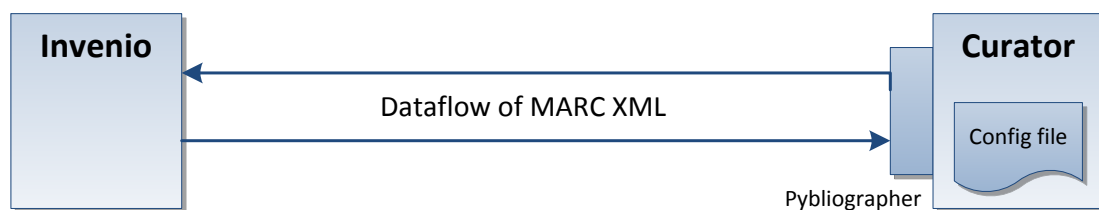


Illustration 1: Dataflow, general view



2.2 Specific view interns in Invenio

According to the demand, Invenio will return some publications in XML MARC format.

But Invenio must integrate at XML MARC data the specific informations for the plateforme. Indeed, Curator will use Pybliographer, a generic library to handle bibliographic information in XML MARC format. This is why Curator is needing that Invenio integrate, in XML MARC, specific information like autogenerate ID.

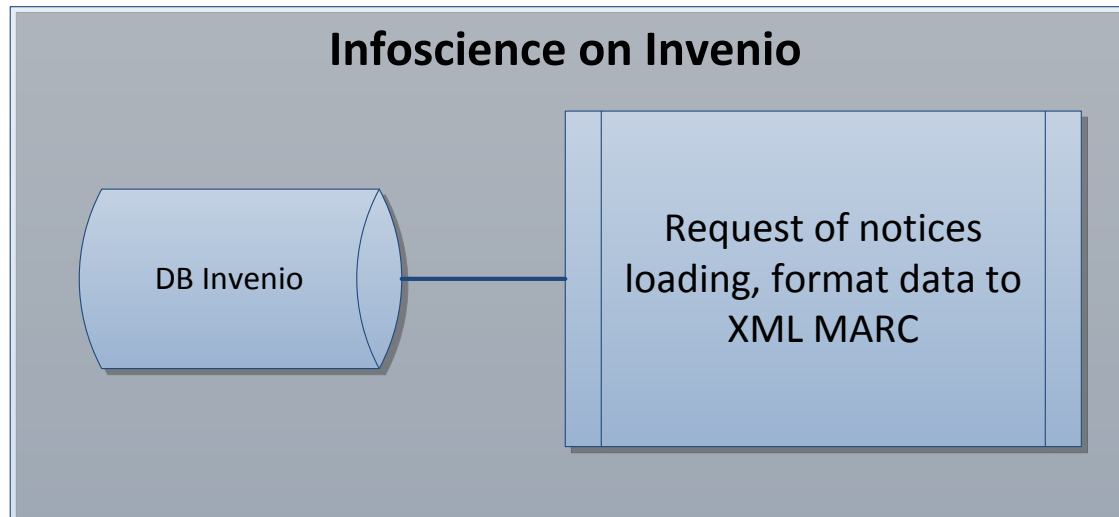


Illustration 2: Intern process of Invenio



2.3 Specific view interns in Curator

Curator would carry out some treatment on publications. It will need to receive these publications from Invenio. It will pass through Pybliographer to obtain data.

Pybliographer will be a bridge which provide different XML MARC parameters to Python scripts from Curator so that this one treats them.

Once the treatment carried out, Curator will return the correct parameters to Pybliographer which will rebuild the XML MARC correct to him in order to return them to Invenio for the update of the data base.

Curator will also have a configuration file which will contain various information on the platform with which it communicates. That could be the format of I/O, the URL appealing... etc.

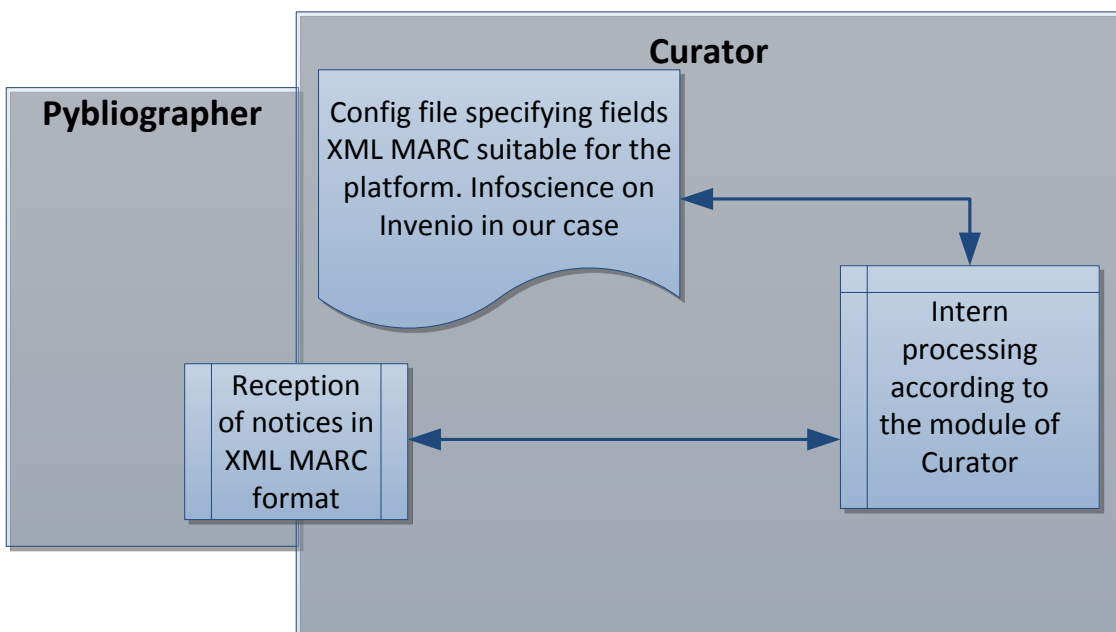


Illustration 3: Intern process of Curator