

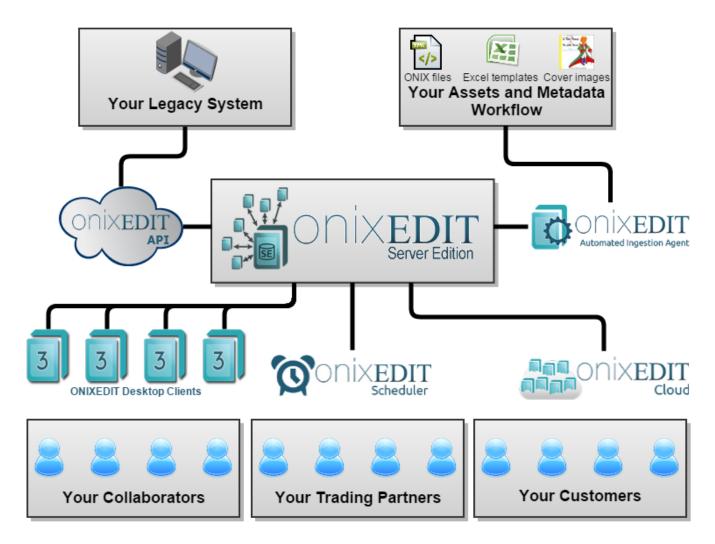
METADATA SYSTEM



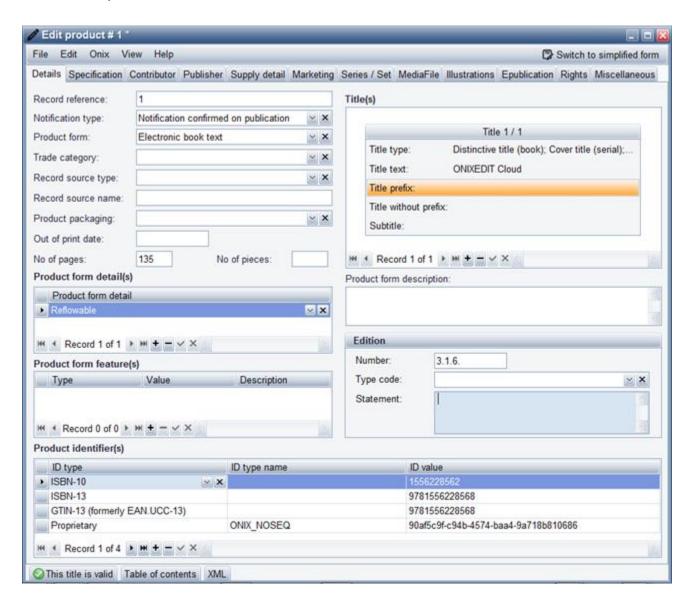
ONIX Software for publishers

1. ONIXEDIT Server Edition

ONIXEDIT Server Edition is our most advanced ONIX solution. No matter if you are a metadata aggregator who wants to normalize and automate your metadata workflow, or a large publisher who wants to maintain thousands of ONIX titles from anywhere, ONIXEDIT Server is for you. The following picture shows the architecture of this system:

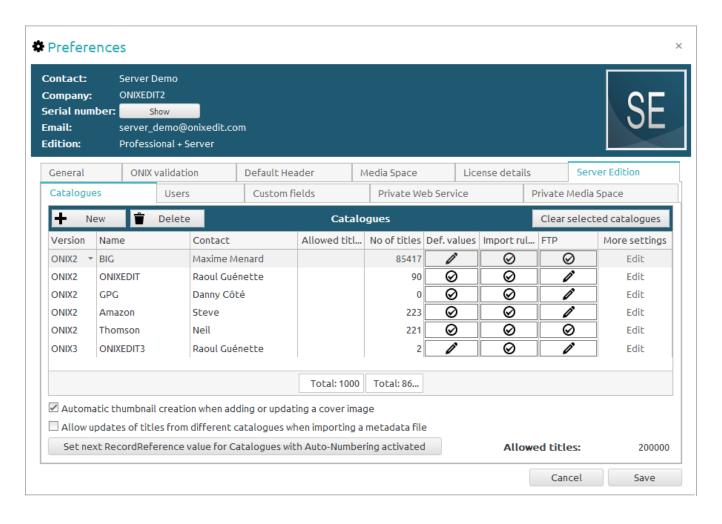


In this architecture, <u>ONIXEDIT Pro</u> is used as the client application to search, create, modify and validate metadata maintained in an MS-SQL database. There is no need to have a special ONIXEDIT application to connect to ONIXEDIT Server. Thus, users enjoy exactly the same functionalities offered today by ONIXEDIT Pro (as defined in <u>Appendix A</u>). Moreover, they are able to connect to one or many ONIXEDIT Servers as long as they are invited by the Server administrator.

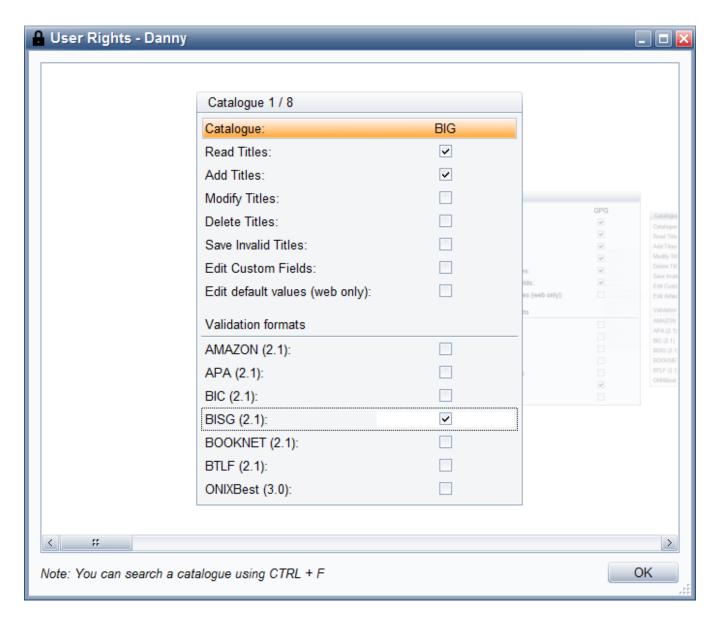


As well, ONIXEDIT Pro is used to transfer external media files to your dedicated Media Space.

The Server administrator also uses ONIXEDIT Pro to define one or many **catalogues** with a special module available only to administrators of the Server Edition.

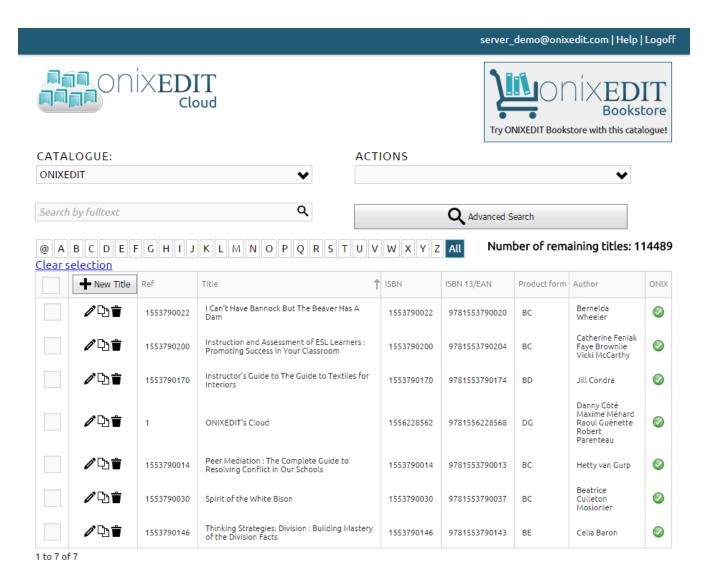


In this administration module, he may also specify for each defined catalogue, users and their rights, which are: Read Titles, Add Titles, Modify Titles, Delete Titles, Save Invalid Titles, Edit Custom Fields and Edit default values.

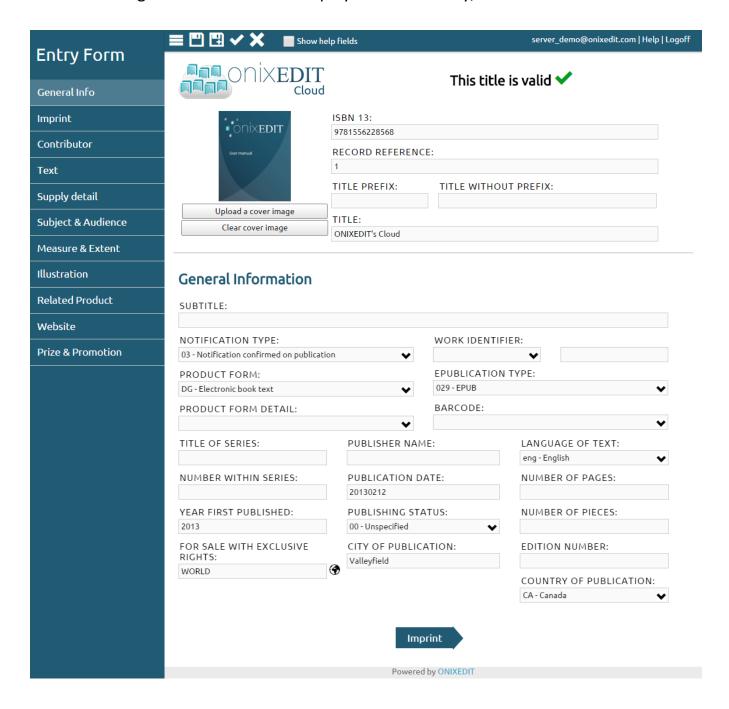


A catalogue is an isolated storage for metadata (ONIX 2.1 or 3.0). The Server administrator can define as many catalogues as he needs. The administrator is also able to define the users who will be authorized to connect to ONIXEDIT Server and the catalogues they are allowed to read or update.

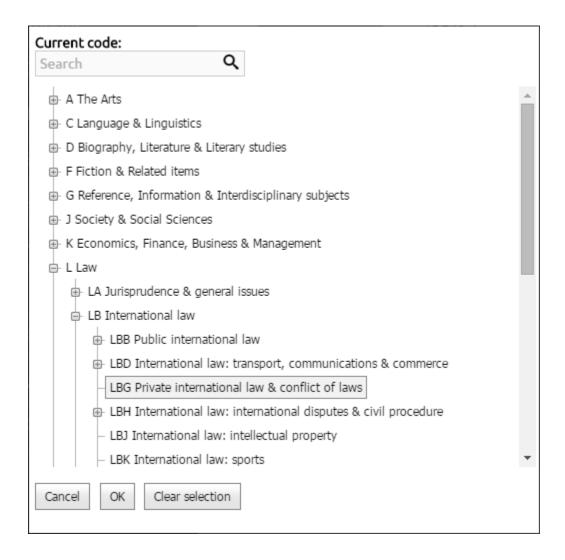
For those who do not have ONIXEDIT PRO, the ONIXEDIT Server Edition offers as an option <u>ONIXEDIT Cloud</u>, a web-based application allowing users from any platform to collaborate to one or more catalogues of metadata. The following picture shows a list of titles from our ONIXEDIT Cloud:



Double-clicking on one of the titles displays the data entry/validation form:

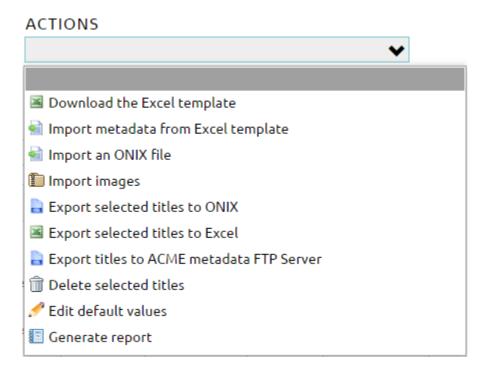


Special controls exist to ease data entry, as in the following screenshot showing our Thema Subjects selection tool:



ONIXEDIT Cloud¹ is the perfect web-based metadata entry tool. With ONIXEDIT Cloud, your collaborators and clients will be able to:

- Connect to their allowed catalogues.
- Upload any well-formed ONIX file to the server².
- Upload metadata from an Excel template for an automatic conversion to ONIX.
- Download titles from a catalogue to an ONIX file.
- Search, create, update and delete titles (when users are allowed).
- Validate ONIX metadata using our embedded ONIX 2.1/3.0 validation engine which can validate against BTLF, BNC, BISG, BIC, APA or EDITEUR ONIX 3.0 best practices.
- Upload media files (like cover images) and associate it to your ONIX titles.
- Edit default values for fast metadata entry.
- And more.



¹ The data entry/validation form of ONIXEDIT Cloud shows only a subset of the ONIX tags supported by ONIXEDIT - this subset corresponds exactly to the ONIX fields available in the simplified interface of ONIXEDIT Pro.

² Maximum file size is set to 20 MB - could be increased up to 1 GB with on premise installations.

Our Web application is an ASP.NET solution that could easily be integrated to any existing Web just by linking to it. The Web module is on a blank layout, comes with its CSS style sheet and could be adapted to any design (extra services at our hourly rate).

In summary, anyone who has a valid ONIXEDIT Pro license or an Internet connection with a modern browser (Macintosh or PC) could be invited to collaborate (search, add, edit, import, export, validate ONIX titles) to one or more catalogues of metadata defined by the Server administrator.

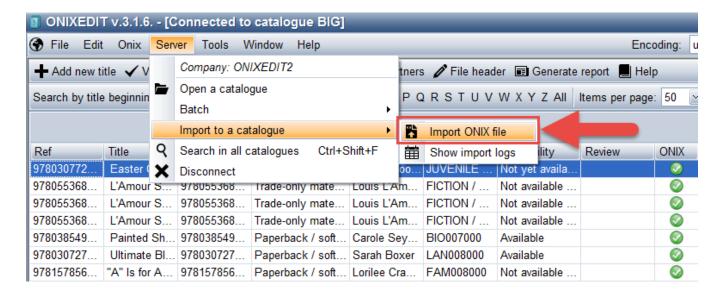
2. Special Features Specific to Server Edition

2.1 Large Metadata Catalogues

ONIXEDIT Server Edition is able to work with millions of titles spread over large metadata catalogues (maximum catalogue size recommended is 300,000 titles). System capacity is limited only by the total number of records allocated to your account (hosted service) and may be increased anytime to suit your needs. For on-premise installations, system capacity is limited only by your MS-SQL server configuration. Metadata is kept in an indexed XML column for fast XPATH retrieval. Key properties are also kept in regular SQL fields for most common requests.

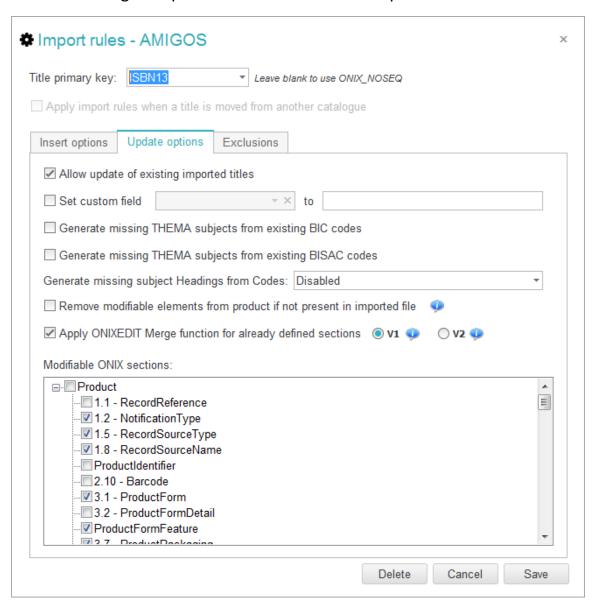
2.2 Large ONIX File Import

With ONIXEDIT Pro and Regular editions, you can open ONIX files directly, but those files should be completely loaded in memory. ONIXEDIT Pro connected to ONIXEDIT Server Edition, is able to read ONIX files of any size and upload them to a specific catalog in your ONIXEDIT Server without having first to load it in memory. It uses a special stream mechanism that requires very little memory. Upload of large ONIX 2.1/3.0 files to ONIXEDIT Server is made via ONIXEDIT Pro Import to a catalogue menu.



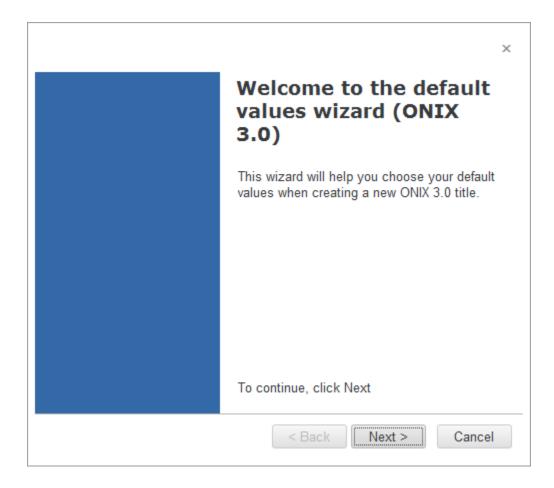
Moreover, you can define import rules specific to each catalogue. The import rules are used by the Server administrator to define the behaviour of the Import function. Thus, you might specify:

- The title key (Record Reference or a specific Product Identifier).
- What to do with a new title: create it or reject it.
- What to do with an existing title: update it or reject it.
- Which ONIX tags to update and which ones to keep intact.



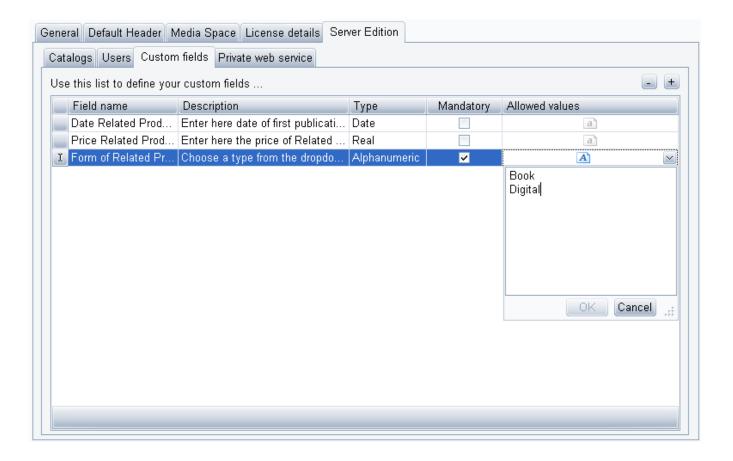
2.3 Default Values per Catalogue

ONIXEDIT Pro and Regular Editions provide a tool to define default ONIX values when you create a new metadata record. That same feature is also available for the Server Edition, but you have the capability to define it on a per-catalogue basis. Thus, each catalogue could have its own default values.

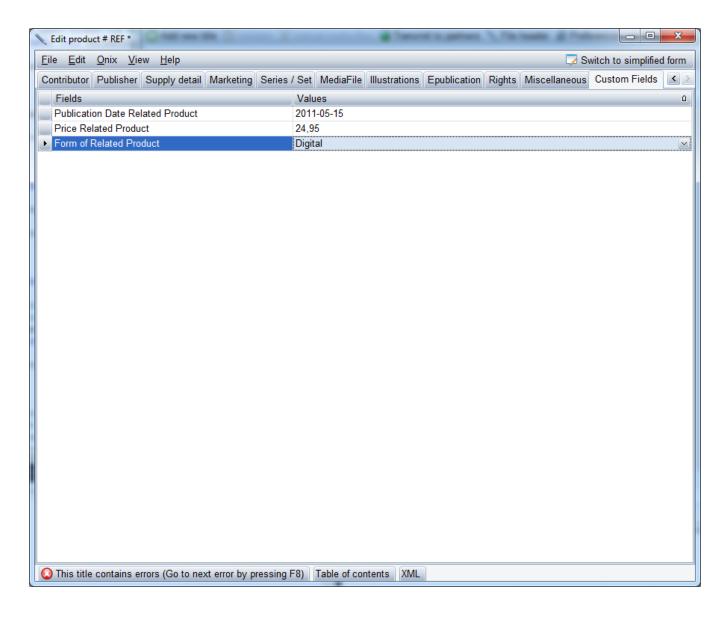


2.4 Custom Fields

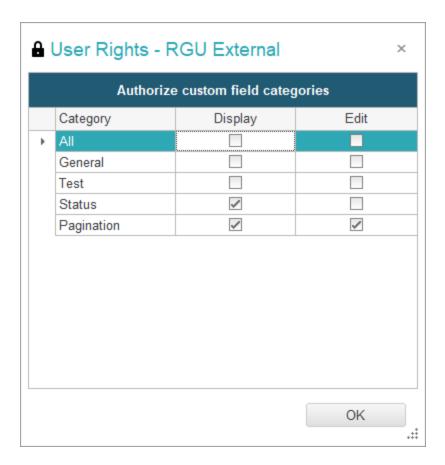
ONIXEDIT is actually able to deal with a subset of the ONIX 2.1 and 3.0 standards (see Appendix B for a complete list of the supported ONIX fields). ONIXEDIT Server Edition also provides support for non ONIX fields that we call "Custom Fields". As the Server administrator, you have the capability to define unlimited custom metadata in a special section of the ONIXEDIT Server Preferences:



Using this special interface, the administrator is able to create, modify and delete custom metadata maintained at the server for each title. Those custom fields are then available directly from ONIXEDIT Pro and ONIXEDIT Cloud data entry form, in the **Custom Fields** section:

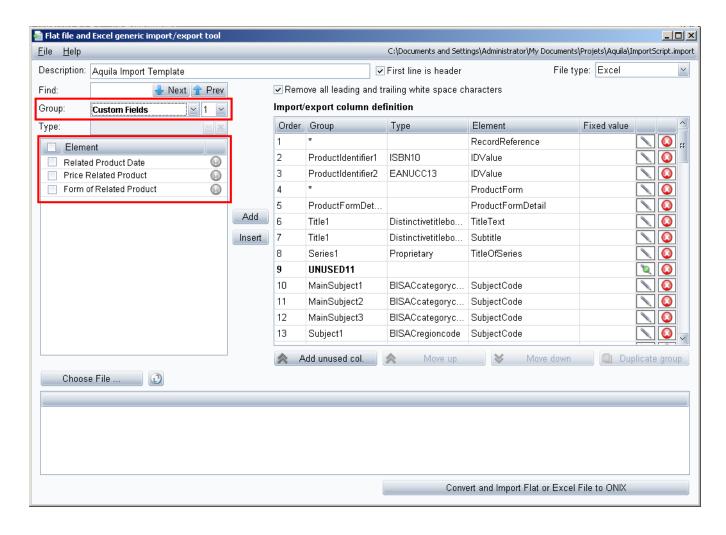


You can also define categories of custom fields and set user access for each:



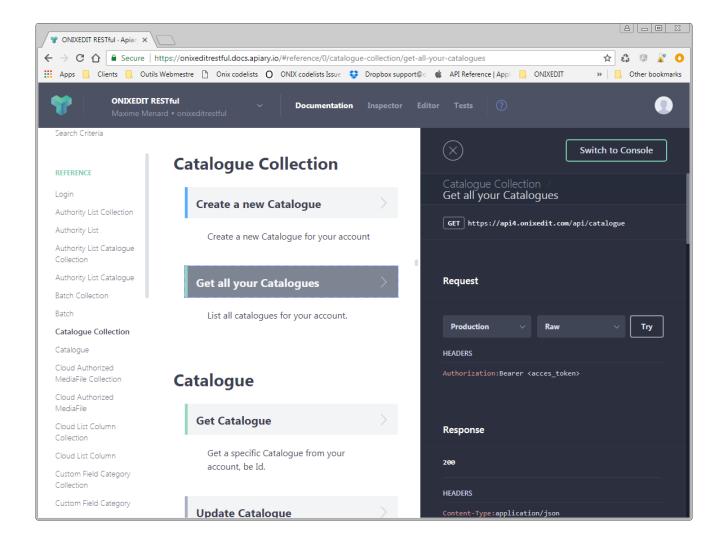
Regarding validation, a title is considered invalid by ONIXEDIT if one of its custom mandatory fields is empty. Also, custom fields with allowed values are enterable using a drop-down list with the values defined by the administrator.

For sure, it is not possible to export custom fields to ONIX files because it would make your ONIX file invalid. However, you can import/export them using our generic import/export tool. You can use that tool to import or export to and from flat files or Excel files:



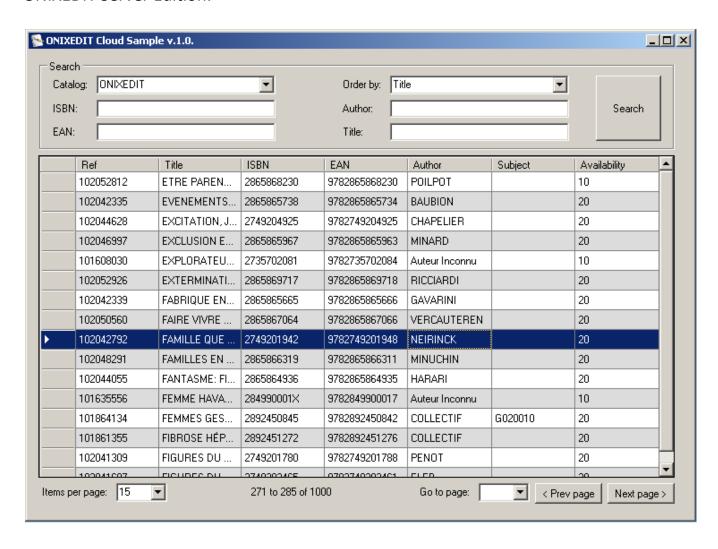
2.5 Open Architecture

Integration between ONIXEDIT Server Edition and your own system is possible with our **RESTful API**. Communication between ONIXEDIT applications and the server is made through an API that exposes all the CRUD (Create, Read, Update, Delete) methods required to work with ONIXEDIT Server Edition. This API layer could then be used by any other custom application.



Your in-house system could use the same exposed methods as ONIXEDIT PRO.

The client side integration from your legacy system to our RESTful API has to be done by your own developers. We provide a complete application (available in Microsoft .NET C#) that you could use freely as a startup project for your own integration needs with ONIXEDIT Server Edition:



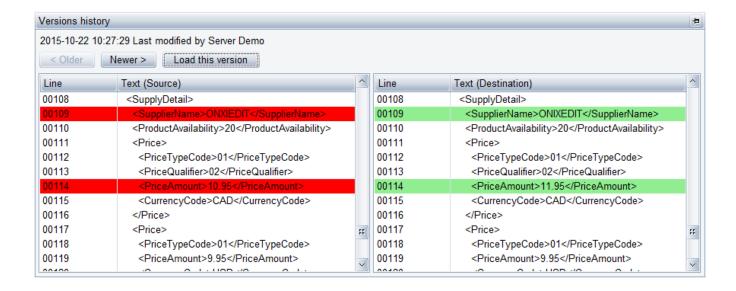
This application comes with its well-documented free source code as well as the complete API reference manual. It shows you how to communicate with ONIXEDIT Server Edition API for CRUD operations on catalogues, users and ONIX metadata records.

We could also provide support to help your team reach their integration projects or even implement them for you as part of a specific mandate. Contact us for a quote.

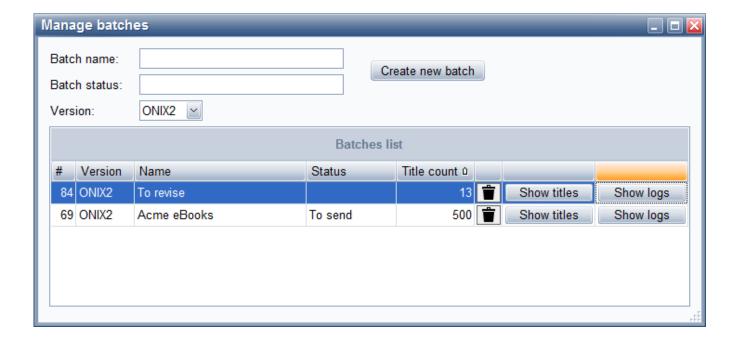
2.6 Other included features

Here is a list of other additional features included in any ONIXEDIT Server Edition:

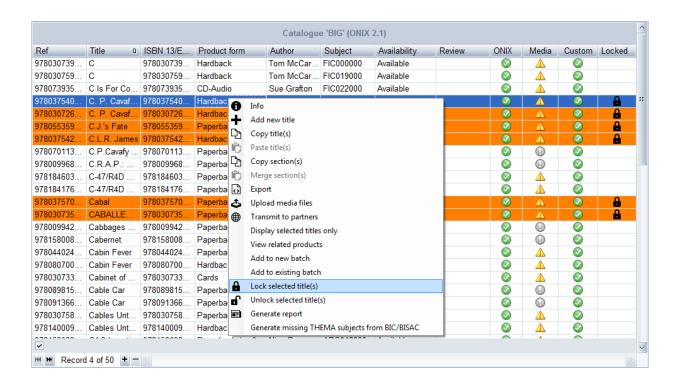
Automatic title versioning. Each time a title is modified, ONIXEDIT Server Edition
maintains a copy of the original version. A special comparison tool allows you to
browse versions of a title and see what the differences are between them, who
has modified the title and when. You can even roll back to a previous version.



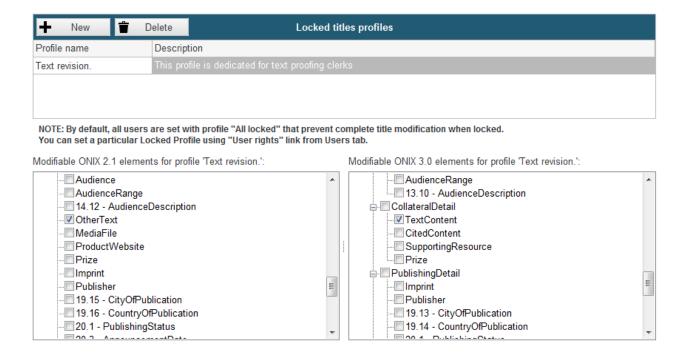
ONIXEDIT SE allows you to work with a specific selection of titles and save it as a
"batch". You can define as many batches as you want, give to each a specific
name and use them to quickly find titles that belong to those batches or even
send a complete batch to your trading partner. Moreover, you can add titles from
different catalogues to a single batch.



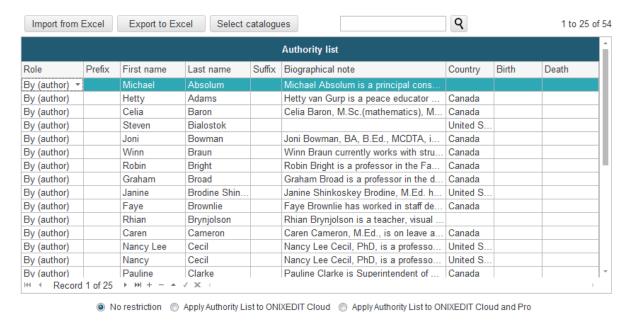
You can "lock" one or more titles.



By default, a title can't be modified once locked. However, you can define different "lock profiles" assigned to your users in order to authorize them to modify some sections of the title when locked:



 Authority List: For those who want to standardize contributors with the help of an Authority List, this is now possible with ONIXEDIT Server. You can define (or import from an Excel file), a complete authority list and assign it to specific catalogues and apply it to ONIXEDIT Cloud and ONIXEDIT Pro:



2.7 Other Options

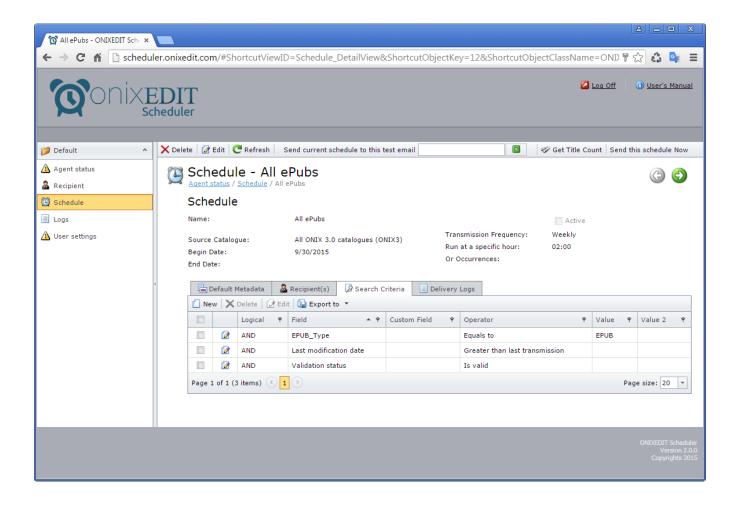
Here is a list of optional tools that you can add to your ONIXEDIT Server Edition:

The Automated Ingestion Agent is an option to ONIXEDIT Server Edition (Hosted or On Premises operation models). It provides a Windows service that can be configured to check for "hot folders" (FTP folders or "drop zones" available from a special URL address) where metadata and asset files are uploaded. Each hot folder is associated with a specific ONIXEDIT SE catalogue. Consequently, each time a metadata file is available in a hot folder, it is imported to the corresponding catalogue while respecting the import rules defined for that catalogue. As well, the Automated Ingestion Agent will search for cover image files (jpg, tiff, png, gif, bmp) and ebook files (pdf or ePub) and based on their name (ISBN or EAN in the file name), those files will be automatically associated with the corresponding title and uploaded to your Media Space or simply archived. The Agent is able to process ONIX files as well as flat files (Excel, or CSV) with automatic conversion to ONIX, providing that an ONIXEDIT import script is defined in the corresponding import script folder (one import script folder per catalogue). After each ingestion of a file, a processing report is sent to you by email and is also saved at the server to keep track of every file ingested.

You can manage Automated Ingestion Agent hot folders and workflows using a handy web based dashboard:



• ONIXEDIT Scheduler is an automated metadata delivery service that can be used with ONIXEDIT Server edition. Its sole purpose is to let you plan transmission of metadata and cover images from a collection of titles to your trading partners. You can define as many schedules as you want and specify which titles to deliver, to whom and when. Once a schedule is activated, ONIXEDIT Scheduler will execute it at the time specified and will maintain logs about each transmission to help you keep track of it and easily find and fix issues. You can even configure the content of each transmission reports with a simple email template.



3. Operating Models

You have the choice between two different operating models. For both models, users can work directly with ONIXEDIT Pro and all its features (one licence per user) or they can use the Web interface:

• Hosted Service: This is the simplest and cheapest way to go with ONIXEDIT Server Edition. You just have to decide how much titles you want to manage and if you want the ONIXEDIT Cloud (Web Interface) or not. It starts at \$2500 CAD per year for 1000 titles (\$0.05 per extra titles), 100 MB of Media Space and came with one ONIXEDIT Pro licence. For the ONIXEDIT Cloud, you have the choice between the unlimited users version at \$4000 CAD per year or \$150 CAD per user per year. The following table shows a basic configuration for 1000 titles and 4 concurrent users (one with ONIXEDIT Pro and 3 with the web interface) that costs \$2950 CAD per year:

All prices are in CAD

HOSTED SOLUTION

ONIXEDIT Server Edition

	Quantity	Unit Price	Tot	tal per year
ONIXEDIT Server Edition including 1000 titles, one ONIXEDIT Pro license				
for Server Administration and 100 MB Media Space.	1	\$ 2,500.00	\$	2,500.00
Additional titles.	0	\$ 0.05	\$	-
Web Interface (unlimited users).	0	\$ 4,000.00	\$	-
Web Interface (per user basis).	3	\$ 150.00	\$	450.00
Automated Ingestion Agent for automatic metadata (ONIX 2.1/3.0 or				
Excel), cover images and eBooks ingestion.	0	\$ 3,300.00	\$	-
ONIXEDIT Scheduler to automate transmission of metadata (ONIX 2.1/3.0				
or Excel) to your trading partners.	0	\$ 1,200.00	\$	-
		TOTAL:	\$	2,950.00

Additional ONIXEDIT Pro for client access (optional)

	Quantity	Uni	t Price	Firs	st Year	Annual Ren	iewal
ONIXEDIT Pro license, including updates, support and 50 MB of Media							
Space for one year.	0	\$	475.00	\$	-	\$	-

You can build your quote on line here:

http://onixedit.com/en-us/products/onixedit-server/quote

• On-Premise Installation: With the on-Premise Installation, we install all the required software on your own server (you must provide a Remote Access to it). You will get the same functionalities and options as with the hosted version. In addition, you won't have any limitation on the number of titles allowed neither any quota for your Media Space (limited only by your server capacity).

The following table shows a typical configuration with unlimited titles 1 ONIXEDIT PRO user and unlimited web interface users that costs \$21 400.00 CAD. The yearly renewal fee for system maintenance and software upgrades is \$2500 CAD.

ON-PREMISE SOLUTION

ONIXEDIT Server Edition

	Quantity	Unit Price	Total
ONIXEDIT Server Edition including one ONIXEDIT Pro license for Server			
Administration. Title records limited only by server configuration.	1	\$12,000.00	\$ 12,000.00
Web Interface (ONIXEDIT Cloud) with unlimited users.	1	\$ 4,500.00	\$ 4,500.00
ONIXEDIT Scheduler to automate transmission of metadata (ONIX 2.1/3.0			
or Excel) to your trading partners.	0	\$ 3,000.00	\$ -
Automated Ingestion Agent for automatic metadata, cover images and			
eBooks ingestion.	0	\$ 4,500.00	\$ -
ONIXEDIT Server Edition installation and configuration. The client must			
provide the Server, a remote access to it, OS, IIS, MS-SQL licenses. See			
system requirements for details.	1	\$ 900.00	\$ 900.00
Remote access setup, final configuration and test. Startup.	1	\$ 4,000.00	\$ 4,000.00
		TOTAL:	\$ 21,400.00

Additional ONIXEDIT Pro for client access (optional)

	Quantity	Uni	t Price	Fi	st Year	F	Annual Renev	wal	
ONIXEDIT Pro license, including updates, support and 50 MB of Media						T			
Space for one year	О	\$	475.00	\$	-		\$	-	

Other fees

Annual fee for system maintenance and software upgrades	\$2	2,500.00
Hourly rate for support, special module development and customization	\$	130.00

Server Requirements:

Be sure to comply with these minimum Hardware and Software requirements:

- Server: 64bit processor, Quad Core 2.5 GHz or faster, 32GB RAM or more, with free enough space to maintain your metadata Catalogues and media files (minimum 10GB).
- Operating system: Windows Server 2012 family or higher.
- MS-SQL 2012 or higher.
- IIS Web Server 8 or higher.

4. Training and support

Support of ONIXEDIT Pro users is included for one year with every purchase of a valid ONIXEDIT Pro licence. The licence must be renewed every year to maintain support and updates (\$275 per year per licence).

Support specific to ONIXEDIT Server Edition issues as well as for the Web Interface is made through support tickets mechanism at our hourly rate of \$130 CAD.

Support is offered on weekdays from 9:00 to 17:00 (EST).

Training is also available at our hourly rate. We could provide online training or on premises (travel and lodging extra).

5. Integration to your in-house system and special development

If you have special requirements or need to integrate ONIXEDIT to your own system, ask us for a quote.

6. Security and Maintenance

If you choose our Hosted Service, your ONIX metadata will be maintained at our Secure Data Center in Beauharnois, Québec, Canada. Our service provider is one of the most recognized leader in ISP services: OVH (https://www.ovh.com/ca/en/). We take care of backups, and system maintenance.

If you choose On Premises installation, you will be responsible of security issues and backups. ONIXEDIT Server Edition updates are included with your annual licence (remote access required).

APPENDIX A – ONIXEDIT FEATURES

ONIXEDIT is available in two versions: ONIXEDIT and ONIXEDIT Pro. The regular and Pro version are exactly the same software but for the regular version, some features are optional. See the grid of features below for details:

ONIX	ONIXEDIT	ONIXEDIT Pro
Read and write ONIX 2.1 and 3.0 XML files with short or long tags	~	~
Convert your ONIX 2.1 files automatically to ONIX 3.0	~	~
Integrated ONIX 2.1 and 3.0 validator (e.g. required fields, restricted values, etc.)	~	~
Integrated validator for specific formats (BTLF, Booknet, BISG, BIC, APA) and for the latest ONIX 3.0 Best Practices document	One	All
Compliant to the block update facility and tag attributes of ONIX 3.0 with the Advanced Interface	Optional	~
Automatic Header section signature with your name and company name, as defined in your profile on the ONIXEDIT portal	~	~
Error summary, with automatic positioning to the next error	~	~
ONIX table of contents, with search and positioning functions	~	~
View the XML results for a title	~	~
Compatible with over two hundred ONIX 2.1 and ONIX 3.0 components and tags (click here for the complete list)	~	~
Content	ONIXEDIT	ONIXEDIT Pro

User-defined default values for all the contents of a file	~	~
Unlimited number of identifiers (including proprietary)	Optional	~
Unlimited number of titles (e.g. special, original, translation, etc.)	Optional	~
Unlimited number of contributors (e.g. author, translator, illustrator, photographer, etc.)	~	~
Unlimited number of publishers	Optional	~
Unlimited number of distributors, with country and regional support	Optional	~
Unlimited number of prices, currencies, discounts and taxes	~	~
Unlimited number of selling rights or restrictions in one or more countries	Optional	~
Management of stocks and warehouses	Optional	~
Unlimited amount of marketing agents	Optional	~
Definition of target audiences, with definition by age range	~	~
Subject classification, with integrated values list from BISG and BIC	~	~
Unlimited number of conferences and prizes	Optional	~
Description, table of contents, back cover, reviews, biographical note, excerpt	~	~
Content	ONIXEDIT	ONIXEDIT Pro

Integrated XHTML editor which allows editing of content presentation	~	~
Unlimited number of collections and series	Optional	~
Associate external cover image	~	~
Associate external media files (pictures, audio, video and text in PDF or ePub format)	Optional	~
Unlimited number of related products	3 included	~

Tools ONIXEDIT ONIXEDIT Pro

Automatic conversion and verification of formats EAN/ISBN/ISBN13	~	~
Automatically saves most frequent contributor data	Optional	~
Generic Import/Export tool allowing you to convert ONIX files to flat files and inversely (supports tabulated, CSV, fixed length and Excel files)	Optional	~
Imports Excel files in BTLF summary and Booknet Bronze formats	~	~
Title search using all the supported ONIX tags	~	~
Search and Replace a value in any supported ONIX tags	~	~
Copy any ONIX sections from a title and merge it to a selection of titles	~	~
Batch Updates of ONIX files (Generic Flat Files Import/Export tool required)	Optional	~
Standardization of images, size and resolution	~	~
Share media files on the Internet using your private Media Space	Optional	~
Automatic FTP transmissions of ONIX files and cover images to your trading partners	~	~
Create stunning price lists and promotional catalogues with our Report Builder	Optional	~
Generate THEMA subjects automatically from your BISAC or BIC subjects	~	~

ONIXEDIT

ONIXEDIT Pro

Other

Bilingual interface (English or French)	~	~
Simplified interface	~	~
Advanced interface	Optional	~
Open several files at once	~	~
Transfer/copy files by "drag and drop"	✓	~
Remember ten most recently opened files	~	~
Manage several thousand titles in a single file	~	~
50 MB of space to store and share your media files with your partners	Optional	~
Technical support from ONIXEDIT specialists	Optional	~
Customization of the metadata to show in your Main list	~	~

APPENDIX B - Supported ONIX 2.1 and 3.0 Tags

You will find the complete list of ONIX 2.1 and 3.0 tags supported by ONIXEDIT and ONIXEDIT Server on our website at the following address:

http://onixedit.com/en-us/products/onixedit/onix-tags

APPENDIX C - Additional Resources

You will find additional information about ONIXEDIT Server Edition at the following addresses:

ONIXEDIT Server Edition Features:

http://onixedit.com/en-us/products/onixedit-server/features

ONIXEDIT Server User Manual:

http://onixedit.com/en-us/products/onixedit-server/user-manual

- Automated Ingestion Agent User Manual: https://onixedit.com/en-us/products/onixedit-server/automated-ingestion-agent-user-manual
- ONIXEDIT Scheduler User Manual:

http://onixedit.com/en-us/products/onixedit-server/onixedit-scheduler-user-manual

- ONIXEDIT Cloud User Manual: https://onixedit.com/en-us/products/onixedit-cloud/user-manual
- Video Tutorials and other resources:

http://onixedit.com/en-us/support/resources

RESTFul API documentation:

https://onixeditrestful.docs.apiary.io