

# Your guide to the **Xillio API for Connectivity & Content Integration**

The New Way of Connecting  
Systems



**xillio**   
making content work

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# The Xillio API

## Discover The Basics

A developer API for connectivity and content integration services designed for the cloud<sup>1</sup>. In its most basic form it unifies access to a wide range of content sources and repositories. It is designed to make developers more productive when they need to integrate content from different repositories. The Xillio API enables developers to create one single integration and connect to multiple repositories, without the need for repository specific code. Xillio allows you to create repository-agnostic code, meaning that if it works for one repository, it works for all repositories. The Xillio API is built using industry standards and best practices, so every developer can leverage the power of the API in their platform of choice.

### API – The Goal



One set of functions and features to access metadata and content across a wide range of repositories. No need to learn different feature sets or functions when you have to integrate content from multiple repositories.



There are no exceptions to the one API rule: from a developer perspective all repositories now have the same API. Differences between repositories, such as authentication are handled in the configurations that you set up in the API.



Achieve interoperability by using one unified metadata model which is used consistently across all systems

"We already had a Xillio SharePoint connector set up



**Preservica**  
Active digital preservation

and added Dropbox, Google Drive and OpenText Content Server as content sources within a day for an important customer demonstration. I wouldn't know where to start if I had to use the native APIs, but I suspect we would be measuring the timescales in months not hours."

**John Tilbury**  
CTO

"We have partnered with Xillio for over 10 years to help customers migrate their content during system updates. With the Xillio API, we can help our customers to go global and manage, translate and deliver content in a locally relevant way, independent of where that content resides."



**Thomas Labarthe**  
Executive Vice President of Business and Corporate Development

<sup>1</sup>The Xillio API can also be deployed on-premise or you can host it yourself.

# Benefits

## One Call To Do It All

Whether you develop an integration yourself or let somebody build it for you, an integration is never completed in just a few easy clicks. Building and maintaining integrations requires domain knowledge, test systems and resources. It takes up valuable time of your development team. That's all the more reason to find an alternative method, such as the Xillio API. These are the main benefits of using the Xillio API:

### Easy to use, abstract interface for accessing content

The Xillio API is an easy to use REST API that hides all implementation details of the underlying repositories. When you want to read content you do a single GET call, when you want to write content you do a single POST or PUT call. It doesn't get any easier. Xillio takes care of interacting with the complex native APIs that many products provide.

### No knowledge about underlying repository or repository API required

With one and the same API, it's possible to extract content from different content systems. It isn't necessary to know the native API of the content repository or write repository specific code.

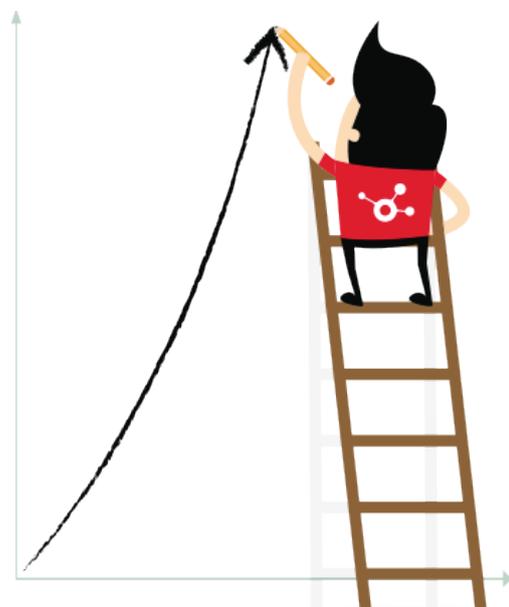
### Declarative API for updates

Xillio provides a very innovative way to deal with updating metadata. When doing an update, the developer provides the original metadata and what the metadata should look like after the update. The API compares those two sets of metadata and

determines the most efficient way to achieve these changes in the underlying system. In some cases, this could be a single call to the underlying system, in other cases a complex series of multiple calls might be needed. Developers no longer need to worry about that. The Xillio API is a true time-saver.

### Build once, replicate many

With the Xillio API, there is no need for your developers to build connectors themselves. With one and the same API, it's possible to extract from and import to many content repositories. The Xillio API is repository agnostic. That means if your code works for one repository, it will work for all repositories. Developers only need to create one integration with Xillio. One call to do it all!



# Content Connectors

## We've Got You Covered

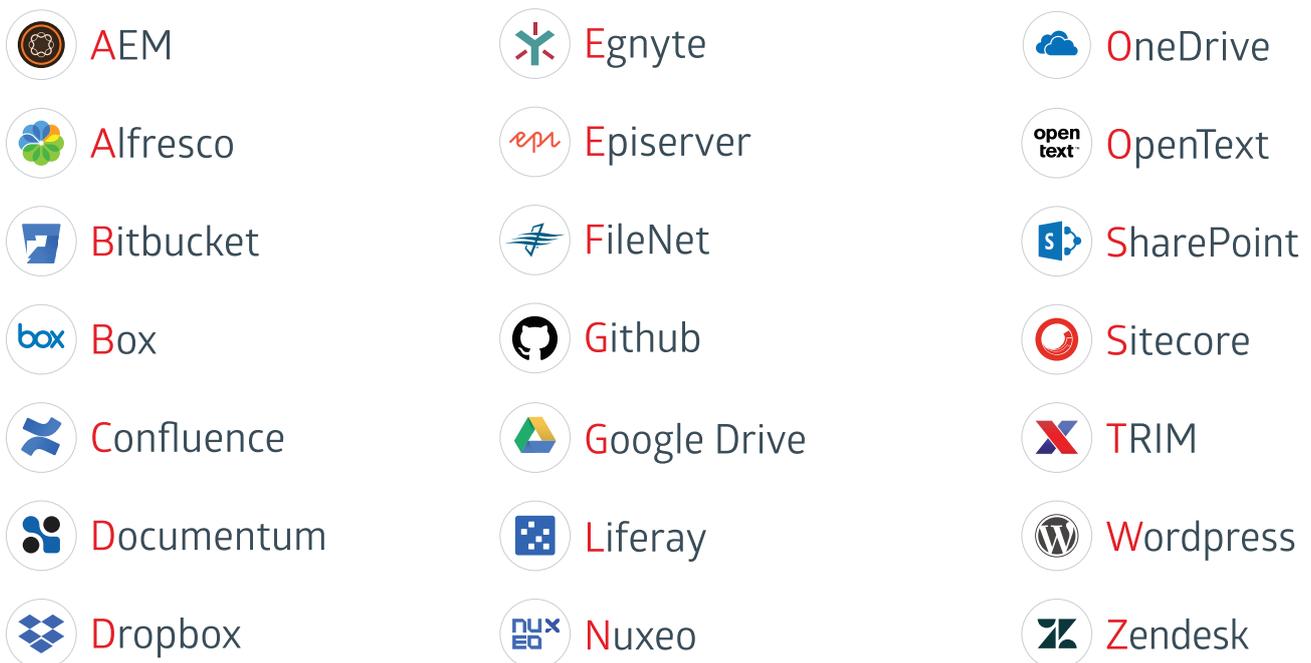
Xillio offers a myriad of read and write content connectors to multiple systems, such as cloud storage, legacy enterprise content management, web content management, digital asset management, marketing automation, source code repositories and many more. Connectivity with these systems is achieved through the Xillio API.

Using these connectors, there is no need to write custom integrations with these systems yourself. Xillio builds these connectors leveraging their experience in migrations. Over the last 14 years Xillio has migrated millions of TB of content into new target environments. The API connectors allow you to benefit from that knowledge and experience.

## Connector sampling

A sampling of available connectors is included below. Please note that this list is not comprehensive, as it is being updated constantly. Our library of content connectors is growing! Do you wish for a connector that is not listed here? No problem. Xillio can easily and quickly develop the connector of your choice.

An overview of our current API connectors:



# Use Cases

## Stories Need a Hero

Integrations can be built on different levels within an application, which are the UI layer, the business layer and the data layer. Different use cases require integration into different levels. Here we explain a few of these use case.

- **Workflow Automation**

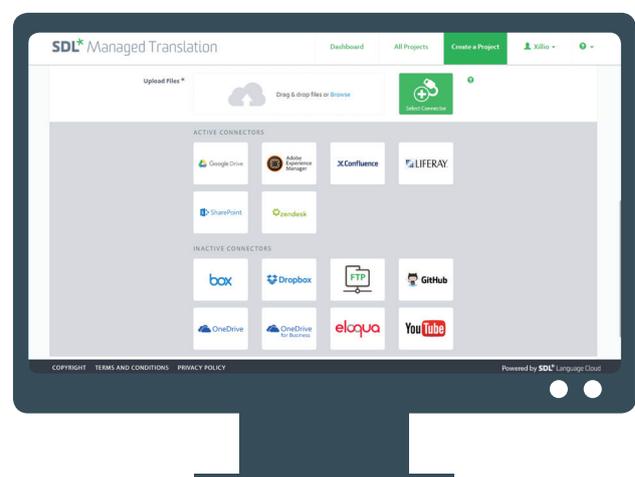
Workflow automation is one of the key technologies for the next decennium and will help businesses accelerate their internal processes. The success of a workflow system is determined by its capability to support client repositories. Xillio helps workflow vendors by extending their range of supported systems by offering a way to easily integrate with these systems and allow them to define workflows on documents stored in external repositories.

- **Translation & Localization**

The holy grail for any language service provider is to be connected to as many systems as possible. The benefit for the client is clear, but technology wise this is complex, expensive to build and maintain. Xillio can provide live access to content in a wide variety of systems, thus enabling language service providers to worry less about connectivity and automation and focus on their core product.

## Example Localization: SDL

For SDL Managed Translation, a cloud-based enterprise translation solution, Xillio made it possible to integrate multiple content repositories within their solution, so that localization managers can browse repositories and directly select content that is stored in the connected systems. There is no need to download the document from the source system and upload it into the Managed Translation interface. The content is automatically downloaded in the background and added to the localization project.



- **Content Analytics**

In order to extract insights from your different content management repositories the first thing you need is access. Xillio offers access to all systems through a unified model, making content analytics a lot faster and a lot easier.

- **Regulatory compliance**

Whether your solution specializes on finding personal identifiable data or it is doing high profile compliance analysis; being able to access your client's content is key to your solution. Leveraging Xillio, our partners have been able to accelerate their development and support a wide range of content repositories for their clients.

- **Customer or employee portal**

When a business user interacts with their customers, for example in a call center, they will need to access content from/about this customer on multiple systems, such as CRM, ECM, and email. Rather than having to log in to each of those systems, you want to provide your employees with a single place to access all of this content. Or provide customers with an option to directly download content relevant to them.

Xillio allows you to provide access to any content repository through a single integration into your business application or portal so that business users can work with this content without leaving their primary business application.

- **Content services architecture**

Many large businesses have complex application landscapes with dozens of custom-built connections between systems. Xillio technology provides enterprises with an abstract layer on top of their repositories, which then enables them to modernize their architecture one step at a time.



# Rich Feature Set

## “Show Me The Money”

The Xillio API come with a rich set of features. We are constantly adding new features to the API and our public cloud to meet the growing demand.

### Retrieve system metadata

Xillio gives you access to the metadata of your content: creation time, creation user, name, content type, etc.

### Retrieve content

One call to read content from your repository. Whether this is a pdf file, an image file, a Microsoft office document or a webpage doesn't matter. Xillio gives you access to everything

### Create and update

Update the name of a file or page, move an object in the hierarchy of a system, replace the contents of a page, or upload a new word document. The declarative nature of Xillio's API makes this all very easy.

### Retrieve version information

Some repositories automatically track the change history of an object by saving multiple versions. This feature offers a uniform way to retrieve information about the available versions and learn about a specific version's metadata and content.

Features continue on next page.

### Retrieve custom metadata

The Xillio API supports uniform access to custom metadata. This feature is essential for business process management or workflow management use cases, where for example workflow status is stored as custom metadata. This custom metadata can now be accessed in a unified structure, so developers no longer need to be aware of the details of the repositories with which they need to integrate.

### Query feature

Execute a query to search for documents or objects in a repository and retrieve all entities and metadata matching the query parameters. For example, you could retrieve all objects that have changed since a given date. The query is defined once and can be used over and over again.

### Retrieve translation information

The Xillio API offers uniform access to all the different translations of the objects and pages that are available within a certain content repository. This enables retrieving information about multiple translations within applications.

### On demand content conversion

The content scripts feature is especially valuable for users working with multiple web content management (WCM) systems. Each system has its own way to store pages and content. There is a demand for uniform access to this page content across multiple systems. You can now write content scripts to change the format of the retrieved content. This makes it possible to normalize the output from different WCM systems into one unified format.

# One Metadata Model

## The Glue

The core of Xillio's API is the use of a metadata model, based on decorators, that can be used across all systems and works regardless of the underlying repositories. In its most basic form, this model is a one-size-fits-all metadata model that is used to normalize the system metadata for all systems to a unified format. This means the Xillio API maps different similar properties with potentially different names into a single model (see example below). Because the model is based on decorators, the model is flexible enough to deal with a wide range of systems. Using one unified metadata model guarantees that metadata is easily **readable**, **accessible** and **exchangeable** between different content repositories.

System A	System B	Xillio
Page	File	Document
Title		Document : title
Author	Created by	Document : author
Name	Name	File : name
Version number	Version number	Version : versions
Description	Comments	Properties : description

## Retrieving content

Xillio's unified metadata model enables you to get access to metadata in a unified way. This metadata describes the properties of an object. Xillio also enables developers to easily access an object's contents. A single call that can be used across all repositories will retrieve an object's contents. Interpreting, using or displaying the content is the only task left for the developer.



# API Structure and Functions

## Show Me The Code

Xillio is built using industry standards and best practices. A REST interface with JSON objects and OAUTH authentication makes it easy to use from virtually any development platform. The API provides all the functions you need to manage the system and to use it.

### Integration functions

Developers use these functions to integrate repositories into their applications.

**/entities:** Read, create and update file, page and folder information including listings.

**/contents:** Read and update file contents

**/query:** Run queries on a target system to get lists of matching objects

### Administrative functions

System administrator can fully manage Xillio with these functions.

**/system:** System administration functions to monitor your system: check which version is running and whether the system is available

**/configurations:** Manage the repositories accessible through Xillio. The configuration holds the connection and authentication information to access a repository and additional options that control how Xillio interacts with the repository

**/users:** Add, edit and remove users for Xillio. This helps you control who accesses your content

```
11  async function uploadFileToAllRepos(file) {
12      console.log('Requesting Xillio API token.');
```

13 let token = await getToken();
14
15 // List the repositories.
16 let repoList = await listRepositories(token);
17 console.log('Found repositories:');
18 repoList.forEach(repo => console.log(`- \${repo.configurationType}: \${repo.name}`));
19
20 // Upload the file to each repository.
21 console.log(`Uploading file: \${file.name}`);
22 return Promise.all(repoList.map(repo => uploadToRepository(token, repo.id, file)));
23 }

The power of a unified API: upload a document to all your repositories with a few lines of code.



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