



ONLYOFFICE Docs

Integration example

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Introduction

The majority of users who have digital workplaces deal with documents or at least notes, so the ability to quickly edit and share them without leaving their workplace can improve productivity and accelerate the work in general.

The major providers, for instance Google, definitely understand and honor that need by including and enhancing document editing tools.

Due to privacy and security concerns, not every company is ready to rely on public clouds, so many businesses build their private infrastructures and their own collaborative solutions. With ONLYOFFICE Docs, an open source office suite, any of these solutions can be enhanced with document editing and co-editing.

In this paper, we will look at ONLYOFFICE integration capabilities provided by its [open API](#).

About ONLYOFFICE Docs

ONLYOFFICE Docs is an open-source office suite that includes document, spreadsheet, and presentation editors. It works directly with OOXML formats (docx, xlsx, pptx) and ensures maximum compatibility with MS Office.

The suite has dual licensing. The free Community version is distributed on terms of AGPL v3.

To provide ONLYOFFICE Docs as a part of a paid SaaS or on-premise solution, the [ONLYOFFICE Developer Edition](#) license is required. It allows scaling and clustering for any number of users as white-labeling to provide on-brand experience.

Testing ONLYOFFICE Docs integration

Each ONLYOFFICE Docs instance includes online editors for text documents, spreadsheets, and presentations, plus a test example.

Test example is simple document management system that can be built into your application for testing (please, do not use it for production without proper code modifications).

Test example is disabled by default. To enable it, follow the instructions on your start screen.

Testing before integration

Use the integrated test example, a simple doc management system, to check if the editors are running correctly.

Start test example:

```
sudo docker exec 107b0f12951c sudo supervisorctl start ds:example
```

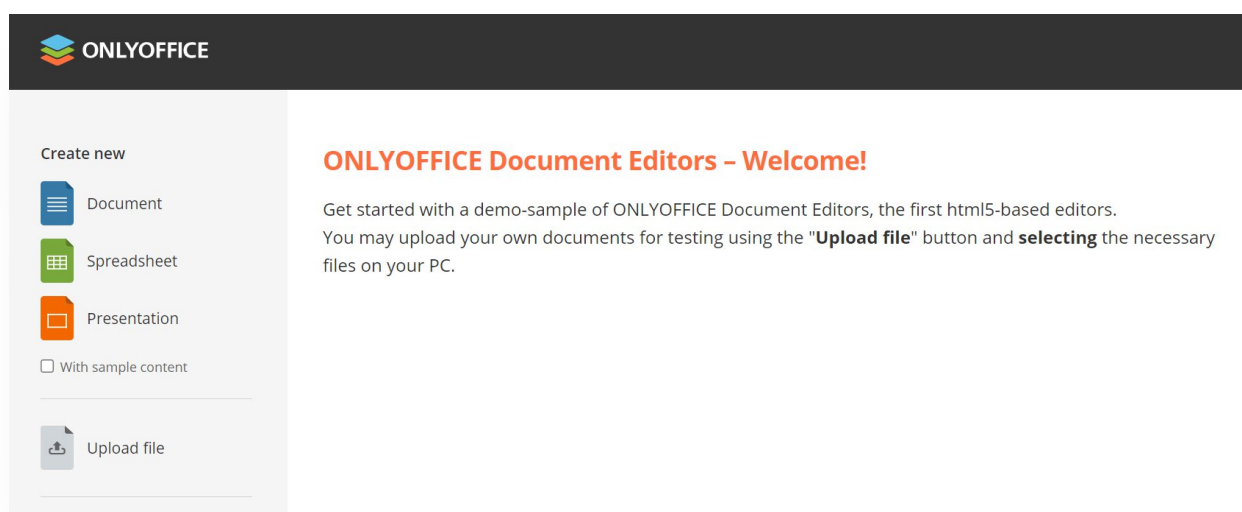
Add it to the autostart:

```
sudo docker exec 107b0f12951c sudo sed 's,autostart=false,autostart=true,' -i /etc/supervisor/conf.d/ds-example.conf
```

If you already installed test example, access it here:

[GO TO TEST EXAMPLE](#)

After enabling it, the following interface will appear:



Note that the test example included by default is written on Node.js. There are also examples in other programming languages: Java, PHP, Python, Ruby, C#, C# MVC. You can download them from [ONLYOFFICE API website](#). The source code is also available [on GitHub](#).

In this paper, we will use test example interface to demonstrate the editors capabilities and provide link to the methods used for the implementation.

Creating documents

On the left panel, you can find buttons for creating a document allow you to create a blank document in OOXML formats:



Text document
(.docx)

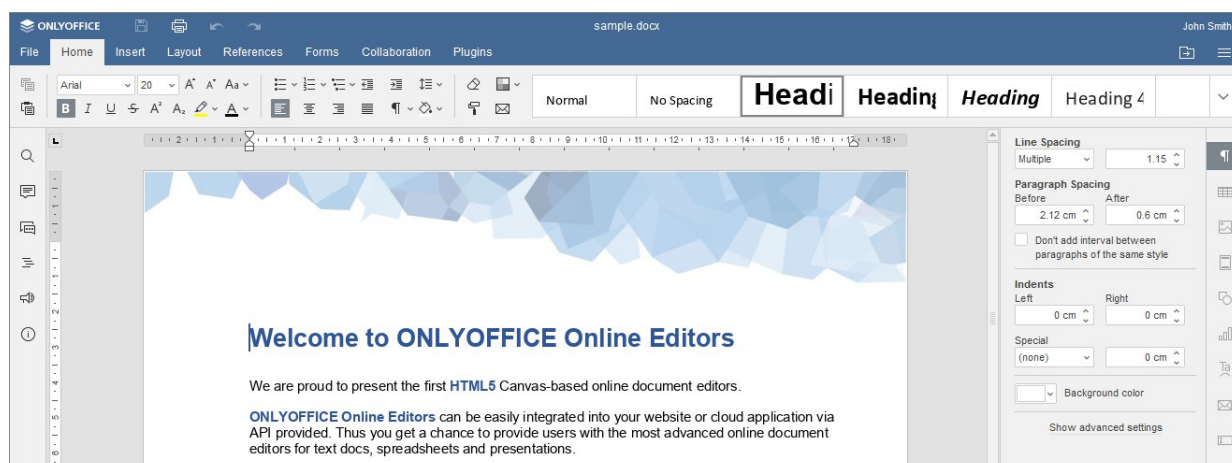


Spreadsheet
(.xlsx)



Presentation
(.pptx)

If you set the "With sample content" checkbox, a demo document with sample content will be created.



To see how document creation has been implemented in the test example, check it [source code on GitHub](#).

Uploading files

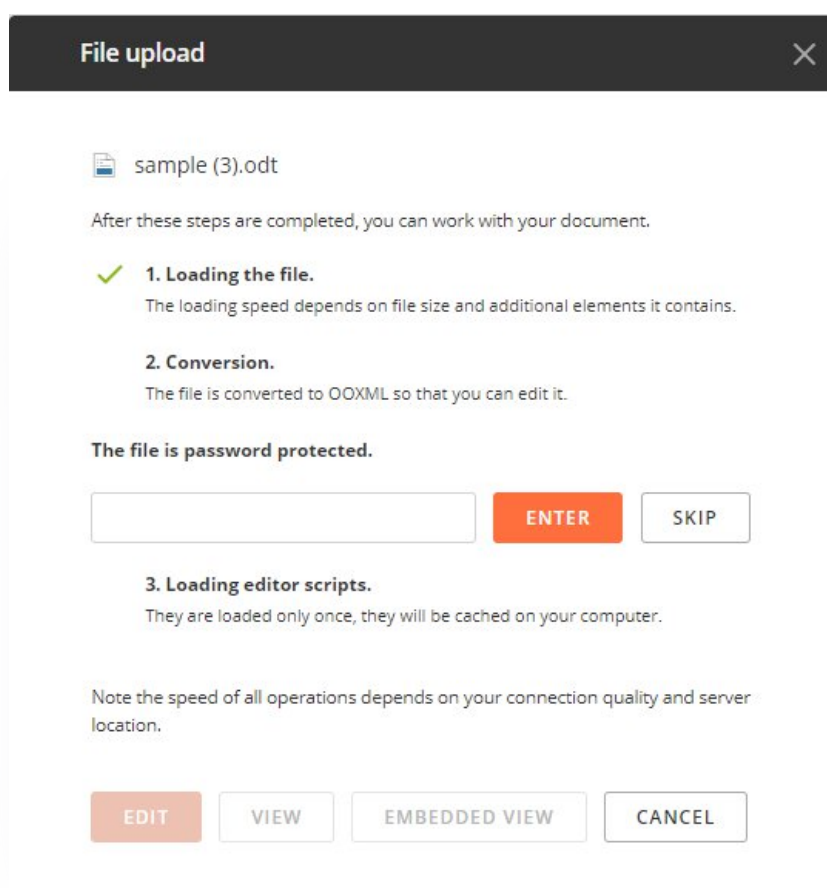
The Upload file button located below the file creation buttons is used to upload existing documents to the test example.

ONLYOFFICE works with OOXML formats (docx, xlsx, pptx) directly.

- The following file formats will be converted to OOXML on upload:
.docm, .doc, .dotx, .dotm, .dot, .odt, .fodt, .ott, .xlsm, .xls, .xltx, .xltm, .xlt, .ods, .fods, .ots, .pptm, .ppt, .ppsx, .ppsm, .pps, .potx, .potm, .pot, .odp, .fodp, .otp, .rtf, .mht, .html, .htm, .xml, .epub, .fb2.

- The following file formats will be saved in the original format:
.pdf, .djvu, .xps, .docx, .xlsx, .csv, .pptx, .txt.

After clicking the File Upload button, you will see a pop-up window that explains the file upload process:



To learn more about conversion in ONLYOFFICE Docs, [check conversion API](#).

To learn how file uploading has been implemented in the test example, check it [source code on GitHub](#).

Methods available for test examples are listed [here](#).

Choosing user and language

Several users are available in the test example. The information about them is [passed to the editors](#).

If the Anonymous user is selected, then the editor will not be given the configuration about the user.

Users have the full access to viewing and editing documents in the test example. To demonstrate the flexibility of distributing the permissions in ONLYOFFICE Docs, some of the aspects differ — for instance, one of the users is not able to download and print documents. See the [Users groups and right table](#).












































In the Language list, you can select the editors interface language. ONLYOFFICE Docs interface is currently available in 31 language.

Working with documents

List of documents

All created and uploaded documents are displayed in the list of the documents.

Your documents








Filename	Editors	Viewers	Download	Remove
 sample.docx	     	  		
 sample.xlsx	   	  		
 sample.pptx	  	  		
 sample.odt		  		
 sample.ods		  		
 sample.odp		  		
 sample.rtf		  		
 sample.csv	   	  		
 sample.txt	     	  		

Documents of the formats available for editing — .docx, .xlsx, .pptx, .txt, .csv — have buttons for opening in various editing modes and viewing modes.

Documents saved in their original formats have buttons for opening in viewing modes.




Editing modes

Modes in which documents can be modified are presented in the Editors column.

	the button opens the document for editing . The editor will be optimized for access to the document from a desktop or laptop computer
	the button opens the document for editing, the editor will be optimized for accessing the document from a tablet or smartphone
	the button opens a document with permission for reviewing (only .docx)
	the button opens a document with permission for commenting
	the button opens a document with permission for filling forms (only .docx)
	the button opens a document without content control modification
	the button opens the document without the ability to change filters (only .xlsx)

Document permission are listed [here](#). Note that printing, downloading, and copying content can also be restricted.

Viewing modes

	the button opens the document for viewing . The editor will be optimized for accessing the document from a desktop or laptop
	the button opens the document for viewing. The editor will be optimized for accessing the document from a tablet or smartphone
	the button opens the document for viewing, the editor will be optimized for embedding the editor into other websites/applications

Co-editing

Co-editing is implemented by using the same [document.key](#) for the same document in the editors' settings. Without this key, the editors will create the editing session each time the file is opened.

In the test example, when any of users opens a file, the same [document.key](#) is used. It means that users are working in the same editing session, simultaneously.

Implementing real-time co-editing is described in [the official API documentation](#).

Other editors features

- Switching from viewing mode to editing. Available only for editable formats. [View API](#)
- Accessing document/version history. [View API](#)
- Getting a link to a bookmark in a document. [View API](#)
- Renaming file from the editor. [View API](#)
- Inserting an image from the storage. [View API](#)
- Comparing the current document to a document from the storage. [View API](#)
- Mail merge. [View API](#)

Handling editors events in browser

- OnAppReady — when the editor is loaded into the browser, the message “Document editor ready” is displayed in the console.
- OnError - if an error occurs when opening a document, a message will be displayed in the console.
- OnDocumentStateChange - when the document is changed, the "*" symbol is added to the page title, which means that the changes made have not yet been saved.

All the events are documented in the official [API documentation](#).

User groups and rights

In test example, you can open a document using different user profiles to test co-editing features.

	John Smith	Mark Pottato	Hamish Mitchell	Anonymous
Group	no group	group-2	group-3	No group, name is requested
Access to reviewing	Can accept/reject changes suggested by any users	Can accept/reject his own changes and changes suggested by users with no group	Can accept/reject changes suggested by users from group-2	Can accept/reject changes suggested by any users
Adding files to Favorites	Undefined	Current document marked as Favorite	Current document is not a favorite	Undefined
Downloading documents	Available	Available	Not available	Available
Printing	Available	Available	Not available	Available
Copying to clipboard	Available	Available	Not available	Available

Conclusion

Using the test examples are the easiest way to test ONLYOFFICE Docs and explore their functionality and integration capabilities.