# OxOffice Online ????

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- Collabora
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- Cookies IIIIII
- PostMessage API

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	Web	
• OxOffice Online		
• III iframe III		
• []]]		
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OxOffice Online	WOPI III	
OxOffice Online   WOPI   WOPI	Web	OxOffice Online WOPI
	/OPI documentation.	VV () 1
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# ????

## OxOffice Online ??

	OxOffic	e Online []]]]	VM WOPI
???? iframe ????	?		
OxOffice Online []]]]]]]		iframe <u></u> ∏	Ш
iframe WOPI discovery XMI	WOPI	OxOffice Online	
https:// <wopi url=""  ="">:<port>/hosting/disc</port></wopi>	covery		
discovery.xml	urlsrc□ urlsrc □	□□□□□ ifram	ne
	WOPISrc WOPIS	rc IIIIII	
https:// <wopi< td=""><td>id&gt;</td><td></td><td></td></wopi<>	id>		
	/wopifil	es/ [ /wopi_imple	mentation/
<file id=""></file>	A-Z	0-9 🗆 - 🗆	
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access_token OxOffice Online UD WOPI URL UT			e []
toke	token [[[]]	token [[[[]]]]	WOPI iframe

## ??????

□ WOP Online □□		OxOffice C	online 🛮 WOPI 🎹		OxOffice
WOPI IIII	OxOffice On	line	WOPISrc IIII	Ш	
GET htt	ps:// <wopi td="" uri<="" □□=""><td>_&gt;/&lt;&gt;/wopi/files/</td><td><pre>/<file id="">/contents</file></pre></td><td>?access_token=<toke< td=""><td>n&gt;</td></toke<></td></wopi>	_>/<>/wopi/files/	<pre>/<file id="">/contents</file></pre>	?access_token= <toke< td=""><td>n&gt;</td></toke<>	n>
POST ht	tps:// <wopi td="" uf<="" □□=""><td>RL&gt;/&lt;&gt;/wopi/files</td><td>s/<file id="">/content</file></td><td>s?access_token=<tok< td=""><td>en&gt;</td></tok<></td></wopi>	RL>/<>/wopi/files	s/ <file id="">/content</file>	s?access_token= <tok< td=""><td>en&gt;</td></tok<>	en>
Ⅲ Ox( <b>PutRelat</b>		4 🛮 WOPI 🚃 💮	∏ Check	FileInfo[ GetFile[	PutFile <b>Ⅲ</b>
		t HTTP header		URL □ access_tok Online □□□ token[	
Authori	zation: Bearer <	token>			
Bas	seFileName	??? URL ???? ? Size?			
	OxOffice Onl	ine ??? Checkl	FileInfo ?????		
	Ш	□ Data type□	□ Required	Ш	
Base	FileName	string	yes		
Own	erld	string	yes		ID
Size		number (int64)	yes	bytes	64

Userld	string	yes	ID[]
UserFriendlyName	string	no	
UserCanWrite	boolean	no	true false
UserCanNotWriteRelativ e	boolean	no	true
PostMessageOrigin	string	no	OxOffice Online  PostMessage API  WOPI  OxOffice Online  OxOffice Online
HidePrintOption	boolean	no	OxOffice Online
DisablePrint	boolean	no	
HideSaveOption	boolean	no	OxOffice Online  PostMessage API  IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
HideExportOption	boolean	no	OxOffice Online OxOffice Online OxOffice Online OxOffice Online OxOffice Online
DisableInactiveMessages	boolean	no	
DisableExport	boolean	no	UI
DisableCopy	boolean	no	

DownloadAsPostMessage	boolean	no	WOPI
EnableOwnerTerminatio n	boolean	no	
LastModifiedTime	string	no	ISO8601 IIII UTC IIII YYYY-MM- DDThh:mm:ss.nnnnZ
UserExtraInfo	object	no	UserExtraInfo Details

#### **UserExtraInfo Details?**

	□ Data type□	□ Required	
avatar	string	no	
mail	string	no	
ip	string	no	OxOffice Online IIII reverse proxy IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

watermark	object	no		
			Watermark Details	

#### **Watermark Details?**

Ш	□ □ □ Data type□	□ Required	
editing	boolean	no	false
printing	boolean	no	false
opacity	number(double)	no	0.01-1.00 0.20
familyname	string	no	
angle	number(int)	no	0-360 UII 45°
color	string	no	CSS #rrggbb
bold	boolean	no	false [
italic	boolean	no	false [
outline	boolean	no	false [
shadow	boolean	no	false[
text	string	no	\n

2. **GetFile**???????????????????????WOPI ????OxOffice Online??

 $\label{lem:general-contents} $$\operatorname{GET https://<WOPI} \ \square\square \ URL>/<...>/wopi/files/<id>/contents?access_token=<token>$ 

3. **PutFile**????????????????????? WOPI ???? OxOffice Online??????

POST https://<WOPI host URL>/<...>/wopi/files/<id>/contents?access\_token=<token>

```
WOPI ____ OxOffice Online ____ - X-W0PI-0verride _____
                                          PUT
 ISO8601
 OxOffice Oline ☐ HTTP 409
 OxOffice Online
  {
  □□00LStatusCode': 1010
  }
                                     CheckFileInfo
 JSON IIIII
 LastModifiedTime∏∏
             OxOffice Online
   "LastModifiedTime": "YYYY-MM-DDThh:mm:ss.nnnnZ"
  }
    PutFile  OxOffice Online
    true
    false∏∏
    X-LOOL-WOPI-IsExitSave -
    true∏
4. PutRelativeFile ......
                                    ? URL
 ???????????? WOPI ????OxOffice Online???????
  POST https://<WOPI host URL>/<...>/wopi/files/<id>?access_token=<token>
 WOPI _____ - X-W0PI-0verride _____
 PUT RELATIVE
                               CheckFileInfo □
 UserCanNotWriteRelative 
☐ true
☐
          OxOffice Online
 X-WOPI-SuggestedTarget - UTF-7
```

# ????

OxOffice Online OxOffice Online 1. П https://<WOPI ∏∏∏ URL(0xOffice Online)>:<port>/hosting/discovery Hello World WOPI REST API 2. GET ITTTTT **REST API** rewrite IIII Hello World □□□ https://<WOPI □□ URL>/<...>/wopi/files/<file id>/contents 3. CheckFileInfo https://<WOPI □□ URL>/<...>/wopi/files/<file id> ☐ JSON ☐☐☐ {"BaseFileName": "test.txt", "Size": 11} 4. 1 OxOffice Online discovery.xml TTT urlsrc ∏ OxOffice Online WOPISrc=https://<WOPI □□ URL>/<...>/wopi/files/<file id> https://<WOPI | URL>:<port>/loleaflet/<hash>/loleaflet.html?WOPISrc=https://<WOPI □□ URL>/<...>/wopi/files/<file id> test.html <html><body> []<input name="access\_token" value="test" type="hidden"/> <input type="submit" value="Load 0xOffice Online"/> </form> </body></html> test.html III Load OxOffice Online 2 WOPI REST API [TTT] WOPI III OxOffice Online □□□ <host> WOPI 

5.		JavaScript [[[[[[[]]]]]		OxOffice
	Online [] iframe[[[[[[[[]]]]]]]]	token∏	OxOffice Online [	
	token [[[[[[[[[]]]]]]]]]			
6.	REST API		Helle	o World[]
	3   JSON   JSON	$\Box$	Chec	kFileInfo
	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□			
7.	PutFile IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		POST IIII	ШШ
	https:// <wopi url="" □□="">/&lt;&gt;/wopi/files/<file id="">/contents</file></wopi>			
8.	PutRelativeFile [[[[]]]]	Chec	ckFileInfo []	
	<b>UserCanNotWriteRelative ☐ true☐ I</b>	ППППППППППППППППППППППППППППППППППППППП		

# ??????? Collabora?

Node.js ??
□ Node.js □ iFrame □ OxOffice Online □□□□ □ npm □ node.js □□
Node.js Example on GitHub
PHP ??
□ iFrame □ PHP □□ OxOffice Online □□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
PHP Example on GitHub
Python ??
☐ iFrame ☐ Python ☐ OxOffice Online ☐ ☐ ☐ ☐ Python ☐ Django ☐ ☐
Python Example on GitHub
ReactJS ??
iFrame    ReactJS    Express    OxOffice Online
ReactJS Example on GitHub
NET ??
□ iFrame □ OxOffice Online □ .NET □□□□□□□□

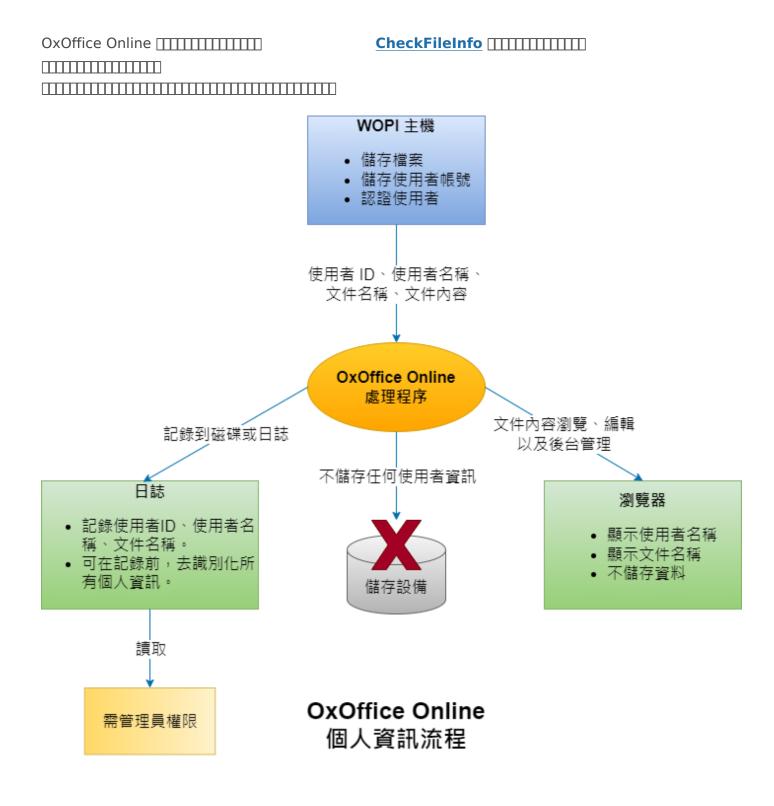
.NET Example on GitHub

# ????

OxOffice Online WOPI WOPI

WOPI docs.

# ??????



# Cookies ???????

• .....

OxOffice Online IIII	cookies	session cookie
	local storage	
•	+	

# PostMessage API

	ame[[[[[]]]]] PostMessage API [[[[]]]]			
☐ API ☐ WOPI ☐ ☐ ☐				
{				
"MessageId": " <messageid>",</messageid>				
"SendTime": " <timestamp is<="" message="" td="" when=""><td>sent&gt;",</td></timestamp>	sent>",			
"Values": {				
" <key>": "<value>"</value></key>				
}				
}				
SendTime Date.now()	WOPI PostMessage			
	Host_PostmessageReady□ OxOffice Online			
OxOffice Online iFrame	OxOffice Online  WOPI			
CheckFileInfo       □       PostMessage0rigin       □	OxOffice Online [[[[]]]]			
???				
??? ? WOPI ??				

MessageID Values
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App_LoadingStatus	<pre>Status: <string> DocumentLoadedTime:   <timestamp> Features:   {"VersionStates":true}</timestamp></string></pre>	• Frame_Ready OxOffice Online
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#### WOPI ?? ? ???

MessageID	Values	
Host_PostmessageReady		□ OxOffice Online WOPI □ PostMessage □

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WOPI IIIII	PostMessage API	
ППППППППППППППППППППППППППППППППППППППП	MessageID ∏∏∏ " Resp"∏	

#### WOPI ?? ? ???

MessageID	Values	
Get_Views		<pre>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</pre>
Get_Export_Formats		

??? ? WOPI ??

MessageID	Values	ш
Get_Views_Resp	<pre>[</pre>	Get_Views
Get_Export_Formats_Resp	<pre>[</pre>	Get_Export_Formats  Label  Format  Format

## ?????

#### WOPI ?? ? ???

MessageID	Values	Ш
Action_RemoveView	ViewId: <number></number>	

#### ??? ? WOPI ??

MessageID	Values	
Views_List	☐ Get_Views_Resp ☐☐	

## ????

MessageId	Values	Ш
Action_Save	DontTerminateEdit: <boolean> DontSaveIfUnmodified: <boolean> Notify: <boolean> ExtendedData: <string></string></boolean></boolean></boolean>	DontTerminateEdit  True  True  DontSaveIfUnmodified  OxOffice Online  WOPI  ExtendedData  WOPI  WOPI  OxOffice Online  WOPI  ExtendedData  WOPI  WOPI
Action_SaveAs	Filename: <string> Notify: <boolean></boolean></string>	• Filename         • Notify     true              WOPI          Action_Save_Resp
Action_FollowUser	Follow: <boolean> ViewId: <number></number></boolean>	Follow true
Action_Close		
Action_Print		
Action_Export	Format: <string></string>	Get_Export_Formats
Action_InsertGraphics	url: <string></string>	
Action_ShowBusy	Label: <string></string>	Lable

MessageId	Values	
Action_HideBusy		
Action_ChangeUIMode	Mode:'classic' □ 'notebookbar'	• classic
Action_Paste	Mimetype: <string> Data: <string></string></string>	<pre>\[ \text{\text{plain; charset=utf-8", Data: } \] \[ \text{haha"}\};</pre>

#### ??? ? WOPI ??????

MessageId	Values	
Action_Load_Resp	<pre>success: <boolean> result: <string> errorMsg: <string></string></string></boolean></pre>	• success true [ false
Action_Save_Resp	<pre>success: <boolean> result: <string> errorMsg: <string> fileName: <string></string></string></string></boolean></pre>	Action_Save   Action_Save   Action_SaveAs PostMessage API   Notify   true   true   false     false

MessageId	Values	Ш
FollowUser_Changed	FollowedViewId: <number> IsFollowUser: <boolean> IsFollowEditor: <boolean></boolean></boolean></number>	• FollowedViewId  ISFollowUser  ISFollowEditor  ISFollowUser  IsFollowUser  IsFollowUser  IsFollowEditor  IsFollowEditor  IsfollowUser  IsfollowEditor  IsfollowEditor
Action_ChangeUIMode_Resp	Mode: <string></string>	Mode IIIII

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#### WOPI ?? ? ???



#### ??? ? WOPI ??

MessageId	Values	Ш
App_VersionRestore	Status: <string></string>	Host_VersionRestore  Status Pre_Restore_Ack WOPI
App_LoadingStatus   VersionStates		

#### WOPI ?? ? ???

MessageId	Values	
Insert_Button  Insert_Button	<pre>id: <string> imgurl: <string> hint: <string> accessKey: <string> mobile: <boolean> tablet: <boolean> insertBefore: <string> unoCommand: <string></string></string></boolean></boolean></string></string></string></string></pre>	
Hide_Button	id: <string></string>	id III IDI
Show_Button	id: <string></string>	

Messageld	Values		
Remove_Button	id: <string></string>	id III ID[]	
Remove_Statusbar_Element	id: <string></string>	id IIII ID	
Hide_Menubar			
Show_Menubar			
Grab_Focus		Grab_Focus	
Hide_Ruler		□□□□□□□ Writer	
Show_Ruler		□□□□□□□ Writer	
Hide_Menu_Item	id: <string></string>	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
Show_Menu_Item	id: <string></string>	id   ID   ID   Hide_Menu_Item	

Messageld	Values		
Disable_Default_UTAction	action: <string> disable: <boolean></boolean></string>	<pre>### Out In Include Includ</pre>	
Send_UNO_Command	Command: <string> Args: <object></object></string>	UI_Hyperlink	

## ?????? ID

□□□□ ID □□□□□□ getToolItems/create □□□□

• Control.TopToolbar.js

- Control.MobileTopBar.js
- Control.MobileBottomBar.js
- Control.StatusBar.js

	ID IIIII
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## ?????? ID

	ID III	Control.StatusBar.js	onDocLayerInit	IC
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Messageld	Values	Ш
Clicked_Button	id: <string></string>	Insert_Button API
Download_As	<pre>Type:   'print' 'slideshow' 'export   ' URL: <string></string></pre>	CheckFileInfo DownloadAsPostMessage
		□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
UI_Close	EverModified: true   false	EverModified
UI_Save	source: 'filemenu'   'notebookbar'   'toolbar'	source
UI_CreateFile	DocumentType: 'text'   'spreadsheet'   'presentation'   'drawing'	WOPI  THE WOPI  THE TWO PI  TH

Messageld	Values	Ш	
UI_SaveAs		WOPI UI  MOPI WOPI WOPI WOPI MOPI MOPI MOPI WOPI WOPI WOPI WOPI WOPI WOPI WOPI W	
UI_Cancel_Password		☐ WOPI	
UI_Hyperlink		<pre></pre>	
Doc_ModifiedStatus	Modified: true   false	Modified true  false	
		Modified	

# ?? Python ??

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Messageld	Values	Ш
CallPythonScript	ScriptFile: <string> Function: <string> Values: <object></object></string></string>	Python      • ScriptFile      • Function      • Values     key: value,

Messageld	Values	
CallPythonScript-Result	<pre>commandName: <string> Values: <object></object></string></pre>	☐ Python ☐☐☐ commandName ☐☐☐☐ URL☐