






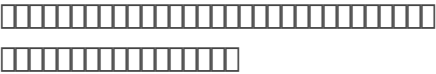


OxOffice Online








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-  _____
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-  _____ Collabora _____
-  _____
-  _____
- Cookies  _____
- PostMessage API












Web



- [OxOffice Online](#) 
-  [iframe](#) 
-  _____
-  _____

 OxOffice Online  WOPI 

OxOffice Online  WOPI Web 
 **WOPI**   **WOPI**  
 [WOPI documentation.](#)

OxOffice Online
WOPI



OxOffice Online

Web OxOffice Online VM
WOPI

iframe

OxOffice Online iframe

iframe WOPI WOPI OxOffice Online
discovery XML

https://<WOPI URL>:<port>/hosting/discovery

discovery.xml urlsrc urlsrc iframe

WOPISrc WOPISrc

https://<WOPI URL>/<...>/wopi/files/<file id>

/wopi/ wopi /wopifiles/ /wopi_implementation/
/wopi/

<file id> base64 A-Z a-z 0-9 - _



token OxOffice Online
access_token OxOffice Online token
WOPI WOPI URL

token WOPI
WOPISrc URL token iframe
token token

XXXXXXXXXXXX

XXXXXX

WOPI XXXX OxOffice Online WOPI XXXXXXXXXX OxOffice Online XXXXXXXXXXXXXXXX

WOPI XXXX OxOffice OnlineXXXXXX **WOPISrc** XXXXX

GET https://<WOPI XXX URL>/<...>/wopi/files/<file id>/contents?access_token=<token>

XXXXXX

POST https://<WOPI XXX URL>/<...>/wopi/files/<file id>/contents?access_token=<token>

XXXX OxOffice Online XXX 4 XXX WOPI XXXXXXXX **CheckFileInfo** **GetFile** **PutFile** **PutRelativeFile**

XXXXXXXXXXXXXXXXXXXX tokenXXX token
XXXXXXXXXXXXXXXXXXXXXXXX token XXX URL XXX access_token=<token>
XXXXXXXXXXXXXXXXXXXX HTTP header XXXX OxOffice Online XXX token

Authorization: Bearer <token>

XXXXXX 4 XXXX

1. **CheckFileInfo**XXXX URL XXXXXXXX JSON
XXXXXX BaseFileName Size

GET https://<WOPI XXX URL>/<...>/wopi/files/<file id>?access_token=<token>

OxOffice Online XXX **CheckFileInfo** XXXX

XX	XX Data type	XX Required	XX
BaseFileName	string	yes	XXXXXXXXXX XXXXXXXXXX
OwnerId	string	yes	XXXXXXXXXX ID

Size	number (int64)	yes	<div> <div>bytes</div> <div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div> <div>64</div> </div>
UserId	string	yes	<div> <div></div> <div>ID</div> </div>
UserFriendlyName	string	no	<div> <div></div> <div></div> </div>
UserCanWrite	boolean	no	<div> <div></div> <div>true</div> <div>false</div> </div>
UserCanNotWriteRelative	boolean	no	<div> <div></div> <div>true</div> </div>
PostMessageOrigin	string	no	<div> <div>OxOffice Online</div> <div> <div>PostMessage API</div> <div>WOPI</div> </div> <div></div> <div>OxOffice Online</div> <div></div> </div>
HidePrintOption	boolean	no	<div> <div>OxOffice Online</div> <div></div> <div>PostMessage API</div> <div>WOPI</div> <div>UI</div> </div>
DisablePrint	boolean	no	<div> <div></div> <div>UI</div> </div>
HideSaveOption	boolean	no	<div> <div>OxOffice Online</div> <div></div> <div>PostMessage API</div> <div></div> <div></div> </div>
HideExportOption	boolean	no	<div> <div>OxOffice Online</div> <div>...</div> <div></div> <div>PostMessage API</div> </div>
DisableInactiveMessages	boolean	no	<div> <div></div> <div></div> <div></div> <div>JavaScript</div> <div></div> <div>Session_Closed</div> <div>User_Idle</div> <div>PostMessage API</div> <div></div> <div></div> </div>
DisableExport	boolean	no	<div> <div></div> <div>UI</div> <div></div> </div>

DisableCopy	boolean	no	<div>XXXXXXXXXX</div> <div>XXXXXXXXXX</div> <div>XXXXXX</div>
DownloadAsPostMessage	boolean	no	WOPI <div>XXXXXXXXXX</div> <div>XXXXXXXXXX</div> <div>XXXXXXXXXX</div> <div>XXXXXX</div> <div>Download_As <div></div></div> <div>PostMessage API</div> <div>XXXXXXXXXX</div> <div>JSON<div><div>{ type: 'print' 'slideshow' 'e xport', url: '...', url...' }</div></div></div>
EnableOwnerTermination	boolean	no	<div>XXXXXXXXXX</div> <div>XXXXXXXXXX</div> <div>XXXXXXXXXX</div> <div>XXXXXX</div>
LastModifiedTime	string	no	<div>XXXXXXXXXX</div> <div>ISO8601 <div></div> UTC</div> <div><div></div> YYYY-MM-DDThh:mm:ss.nnnnZ<div></div></div>
UserExtraInfo	object	no	<div>XXXXXXXXXX</div> <div>UserExtraInfo Details</div> <div></div>

UserExtraInfo Details

<div></div>	<div><div></div><div>Data type</div></div>	<div><div></div><div>Required</div></div>	<div></div>
avatar	string	no	<div>XXXXXXXXXX</div>
mail	string	no	<div>XXXXXXXXXX</div>

ip	string	no	IP OxOffice Online reverse proxy IP IP IP IP
watermark	object	no	 Watermark Details

Watermark Details

	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 45°
color	string	no	CSS #rrggbb #000000
bold	boolean	no	false
italic	boolean	no	false
outline	boolean	no	false
shadow	boolean	no	false
text	string	no	 \n

2. **GetFile** URL WOPI

OxOffice Online

GET https://<WOPI URL>/<...>/wopi/files/<id>/contents?access_token=<token>

3. PutFile

URL

WOPI

OxOffice

Online

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

WOPI

OxOffice Online

- X-WOPI-Override

PUT

- X-LOOL-WOPI-Timestamp ISO8601

WOPI

OxOffice Online HTTP 409

OxOffice Online

```
{
  "OOLStatusCode": 1010
}
```

JSON

CheckFileInfo

LastModifiedTime

OxOffice Online

```
{
  "LastModifiedTime": "YYYY-MM-DDThh:mm:ss.nnnnZ"
}
```

PutFile OxOffice Online

X-LOOL-WOPI-IsModifiedByUser - true

false

X-LOOL-WOPI-IsAutosave - true false

X-LOOL-WOPI-IsExitSave -

true

4. PutRelativeFile

URL

WOPI

OxOffice

Online

POST https://<WOPI host URL>/<...>/wopi/files/<id>?access_token=<token>

- X-WOPI-Override ☐☐☐☐☐☐

CheckFileInfo

X-WOPI-SuggestedTarget - UTF-7 [][][][][]



1. OxOffice Online OxOffice Online

https://<WOPI URL(OxOffice Online)>:<port>/hosting/discovery

2. WOPI REST API GET Hello World
 rewrite REST API
 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 **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>
<form action="" enctye="multipart/form-data" method="post">
  <input name="access_token" value="test" type="hidden"/>
  <input type="submit" value="Load OxOffice Online"/>
</form>
</body></html>
```

test.html **Load OxOffice Online**
 2 WOPI REST API Hello World
WOPI OxOffice Online OxOffice Online
/etc/oxool/oxoolwsd.xml <storage> → <wopi> <host> WOPI

5. JavaScript OxOffice
Online ☐ iframe
token OxOffice Online
token
6. REST API Hello World☐
 3 JSON **CheckFileInfo**
 JSON
7. ☐ **PutFile** POST
8. **PutRelativeFile** **CheckFileInfo** ☐
UserCanNotWriteRelative ☐ **true**



Collabora



Node.js

[Node.js](#) [iFrame](#) [OxOffice Online](#) [node.js](#) [npm](#) [node.js](#)

[Node.js Example on GitHub](#)

PHP

[iFrame](#) [PHP](#) [OxOffice Online](#) [Apache](#) [Web](#) [Apache](#) [PHP](#)

[PHP Example on GitHub](#)

Python

[iFrame](#) [Python](#) [OxOffice Online](#) [Python](#) [Django](#)

[Python Example on GitHub](#)

ReactJS

[iFrame](#) [ReactJS](#) [Express](#) [OxOffice Online](#) [node.js](#) [npm](#)

[ReactJS Example on GitHub](#)

.NET

[iFrame](#) [OxOffice Online](#) [.NET](#)

.NET Example on GitHub



OxOffice Online ☐☐☐

WOPI ☐☐☐☐☐☐☐☐☐☐☐☐

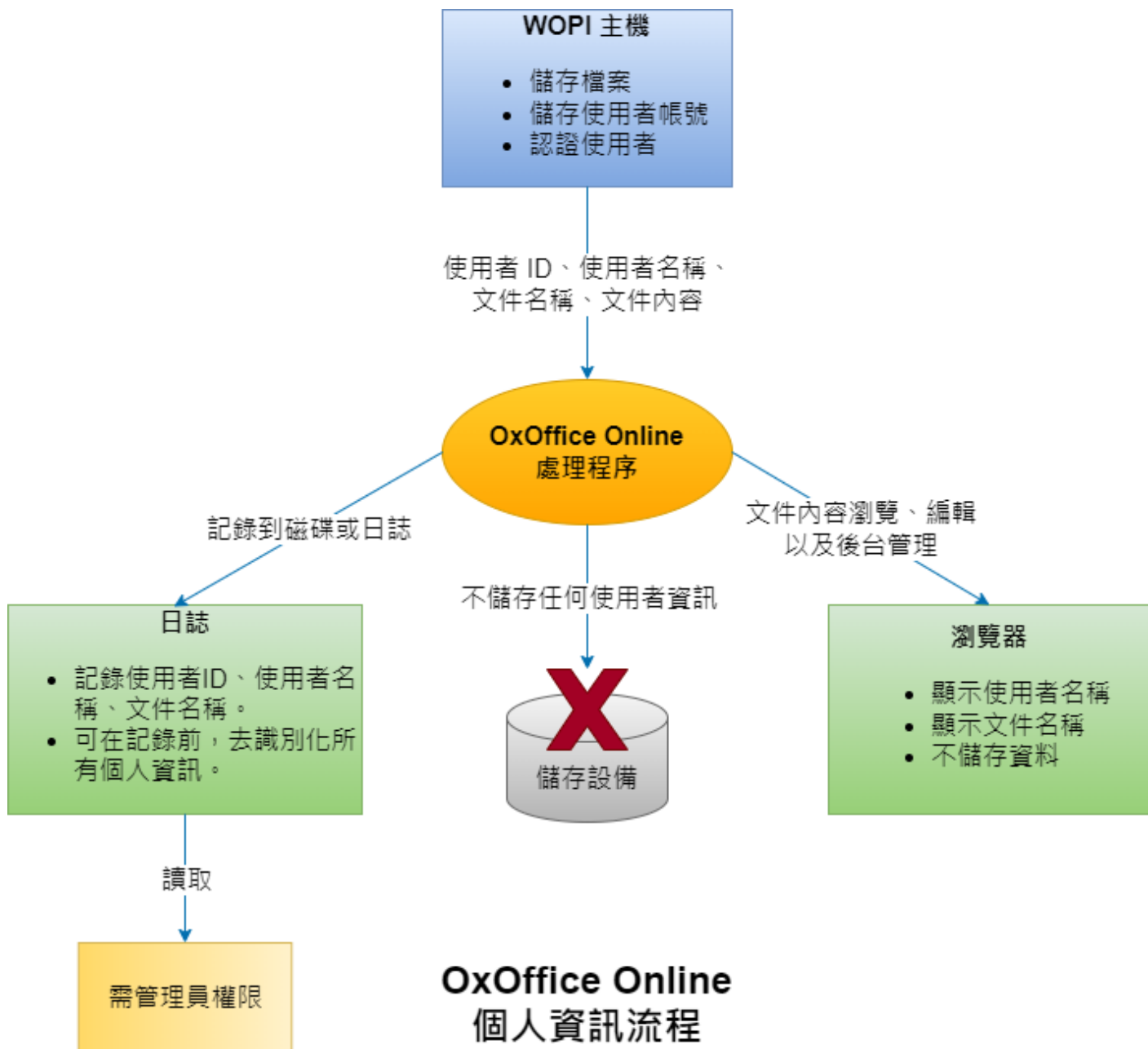


WOPI docs.








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OxOffice Online









CheckFileInfo

[illegible]

Cookies

OxOffice Online  cookies   OxOffice Online  session cookie
  JSON Web Token (JWT)

 local storage 

- 
-  + 
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- 
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- 
- 

PostMessage API

WOPI OxFFice Online iFrame PostMessage API OxFFice Online WOPI

API WOPI

```
{
  "MessageId": "<MessageId>",
  "SendTime": "<Timestamp when message is sent>",
  "Values": {
    "<key>": "<value>"
  }
}
```

SendTime Date.now() WOPI PostMessage

WOPI Host_PostmessageReady OxFFice Online WOPI

OxFFice Online iFrame OxFFice Online WOPI **CheckFileInfo** PostMessageOrigin OxFFice Online



WOPI

MessageID	Values	
-----------	--------	--

App_LoadingStatus

Status: <String>

DocumentLoadedTime:

<Timestamp>

Features:

{ "VersionStates": true }

Status

• Frame_Ready

OxOffice

Online

• Features

- VersionStates

• Document_Loaded

WOPI

PostMessage API

DocumentLoadedTime

• Failed

WOPI

OxOffice Online

WOPI

MessageID	Values	<div></div>
Host_PostmessageReady		<div></div> OxOffice Online <div></div> WOPI <div></div> <div></div> PostMessage <div></div>



WOPI PostMessage API MessageID "_Resp"

WOPI

MessageID	Values	<div></div>
Get_Views		<div></div> <div></div> MessageID <div></div> <div>Get_Views_Resp</div> <div></div>
Get_Export_Formats		<div></div> <div></div>



WOPI

WOPI

MessageId	Values	
Action_Save	<div>DontTerminateEdit: <boolean> DontSavelfUnmodified: <boolean> Notify: <boolean> ExtendedData: <String></div>	<div><div></div><ul style="list-style-type: none">DontTerminateEdit <div></div><div>true</div><div></div>DontSavelfUnmodified <div></div><div>OxOffice Online</div><div></div>Notify <div> true </div><div>WOPI </div><div>Action_Save_Resp</div>ExtendedData <div> X-LOOL-WOPI- </div><div>ExtendedData </div><div>WOPI </div><div></div><div>OxOffice Online </div><div>WOPI </div></div>
Action_SaveAs	<div>Filename: <String> Notify: <boolean></div>	<div><div></div><ul style="list-style-type: none">Filename <div></div>Notify <div> true </div><div>WOPI </div><div>Action_Save_Resp</div></div>
Action_FollowUser	<div>Follow: <Boolean> ViewId: <Number></div>	<div><div></div><div></div><ul style="list-style-type: none">Follow true <div> / false </div>ViewId <div> ID</div></div>
Action_Close		<div></div>
Action_Print		<div></div>
Action_Export	<div>Format: <String></div>	<div><div>Format </div><div>Get_Export_Formats </div></div>
Action_InsertGraphics	<div>url: <String></div>	<div></div>

MessageId	Values	Details
Action_ShowBusy	Label: <String>	Label [] Lable []
Action_HideBusy		[]
Action_ChangeUIMode	Mode:'classic' [] 'notebookbar'	[] <ul style="list-style-type: none"> classic[] notebookbar[]
Action_Paste	Mimetype: <string> Data: <string>	[] [] Values: {Mimetype: "text/plain;charset=utf-8", Data: "haha"};

WOPI

MessageId	Values	Details
Action_Load_Resp	<div> <div>success: <boolean></div> <div>result: <string></div> <div>errorMsg: <string></div> </div>	<div> <div> <ul style="list-style-type: none"> success true [] false result [] errorMsg [] </div> <div> <div>WOPI</div> </div> </div>

MessageId	Values	
Action_Save_Resp	<div>success: <boolean></div> <div>result: <string></div> <div>errorMsg: <string></div> <div>fileName: <string></div>	<div><div>Success</div><div>Action_Save</div><div>Action_SaveAs</div><div>PostMessage</div><div>API</div><div>Notify</div><div>Success</div><div>true</div><div>• success true false</div><div>• result</div><div>unmodified</div><div>WOPI</div><div>errorMsg</div><div>WOPI</div><div>• fileName success</div><div>true</div></div>
FollowUser_Changed	<div>FollowedViewId: <Number></div> <div>IsFollowUser: <Boolean></div> <div>IsFollowEditor: <Boolean></div>	<div><div>FollowedViewId</div><div>IsFollowUser</div><div>IsFollowEditor</div><div>IsFollowUser</div><div>IsFollowEditor false</div></div>
Action_ChangeUIMode_Resp	<div>Mode: <string></div>	<div><div>Mode</div></div>



WOPI

MessageId	Values	
Host_VersionRestore	<div>Status: <string></div>	<div><div>Pre_Restore</div><div></div><div></div><div>OxOffice Online</div></div>

WOPI

MessageId	Values	
App_VersionRestore	<div>Status: <string></div>	<div> <div>Host_VersionRestore</div> <div>Status</div> <div>Pre_Restore_Ack</div> <div>WOPI</div> </div>

App>LoadingStatus

VersionStates

WOPI

MessageId	Values	
-----------	--------	--

Hide_Menubar		<div></div>
Show_Menubar		<div></div>
Grab_Focus		<div><div></div><div></div><div></div><div></div><div>Grab_Focus</div><div></div><div></div></div>
Hide_Ruler		<div></div> Writer <div></div>
Show_Ruler		<div></div> Writer <div></div>
Hide_Menu_Item	<div>id: <string></div>	<div><div></div><div></div><div>id<div></div>ID</div><div><div></div><ul style="list-style-type: none"><div></div><div>uiconfig/text/menubar.json</div><div></div><div>uiconfig/spreadsheet/menubar.json</div><div></div><div>uiconfig/presentation/menubar.json</div><div></div><div>uiconfig/drawing/menubar.json</div></div></div>
Show_Menu_Item	<div>id: <string></div>	<div><div></div><div></div><div>id<div></div>ID</div><div><div></div><div>Hide_Menu_Item</div></div></div>

- Control.StatusBar.js

ID

ID

ID

Control.StatusBar.js

onDocLayerInit

ID

WOPI

MessageId	Values	
Clicked_Button	<div>id: <string></div>	<div></div> <div>Insert_Button</div> API
Download_As	<div>Type: 'print' 'slideshow' 'export' URL: <string></div>	<div></div> <div>...WOPI</div> <div>CheckFileInfo</div> <div>DownloadAsPostMessage</div> <div></div> <div></div> <div>Web view</div>
UI_Close	<div>EverModified: true false</div>	<div></div> <div>EverModified</div>
UI_Save	<div>source: 'filemenu' 'notebookbar' 'toolbar'</div>	<div></div> <div>source</div>
UI_CreateFile	<div>DocumentType: 'text' 'spreadsheet' 'presentation' 'drawing'</div>	<div>WOPI</div> <div></div> <div>DocumentType</div> <div>text</div> <div>spreadsheet</div> <div>presentation</div> <div>drawing</div>

MessageId	Values	
UI_SaveAs		<div><div>WOPI</div><div>UI</div><div>WOPI</div><div>Action_SaveAs</div></div>
UI_Cancel_Password		<div><div>WOPI</div></div>
UI_Hyperlink		<div><div>WOPI</div><div>OxOffice Online</div><div>iframe</div><div>App</div><div>Android</div><div>Activity</div><div>iOS</div><div>WOPI</div><div>Disable_Default_UIAction</div><div>UI_Hyperlink</div></div>
Doc_ModifiedStatus	Modified: true false	<div><div>Modified</div><div>true</div><div>Modified</div><div>false</div><div>Modified</div></div>

Python

WOPI

MessageId	Values	
CallPythonScript	ScriptFile: <string> Function: <string> Values: <object>	<div><div>Python</div><div>ScriptFile</div><div>Function</div><div>Values</div><div>key:</div><div>value, ...</div></div>

MessageId	Values	[[
<div>CallPythonScript-Result</div>	<div>commandName: <string> Values: <object></div>	<div>[[Python]]]] <div>commandName</div>]]]]] URL</div>