






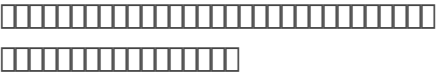


OxOffice Online








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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



 **iframe** 

Diagram illustrating tokenization of a WOPI URL:

- The URL is split into tokens: **WOPI**, **Src**, and **URL**.
- Each token is further tokenized into smaller units (represented by boxes).
- The tokens are then combined into a single sequence: **WOPISrcURL**.

XXXXXXXXXXXX

XXXXXX

WOPI XXXX OxOffice Online WOPI XXXXXXXXXX OxOffice Online XXXXXXXXXXXXXXXXXX

WOPI XXXX OxOffice OnlineXXXXXXX **WOPISrc** XXXXX

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

XXXXXXX

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

XXXX OxOffice Online XXX 4 XXX WOPI XXXXXXX **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 XXXXXXXXXX JSON
XXXXXX BaseFileName Size

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

OxOffice Online XXXX **CheckFileInfo** XXXXX

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> <div></div> <div></div> <div></div> </div>
DownloadAsPostMessage	boolean	no	<div> WOPI <div> <div></div> <div></div> <div></div> <div></div> </div> Download_As PostMessage API <div> <div></div> </div> JSON <div> <div> { Type: 'print' 'slideshow' 'export', URL: '...', URL...' } </div> </div> </div>
EnableOwnerTermination	boolean	no	<div> <div></div> <div></div> <div></div> <div></div> </div>
LastModifiedTime	string	no	<div> <div></div> ISO8601 UTC YYYY-MM-DDThh:mm:ss.nnnnZ </div>
UserExtraInfo	object	no	<div> <div></div> UserExtraInfo Details </div>

UserExtraInfo Details

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

ip	string	no	IP address OxOffice Online reverse proxy IP 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. GetFileURL 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

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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="" enctype="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

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

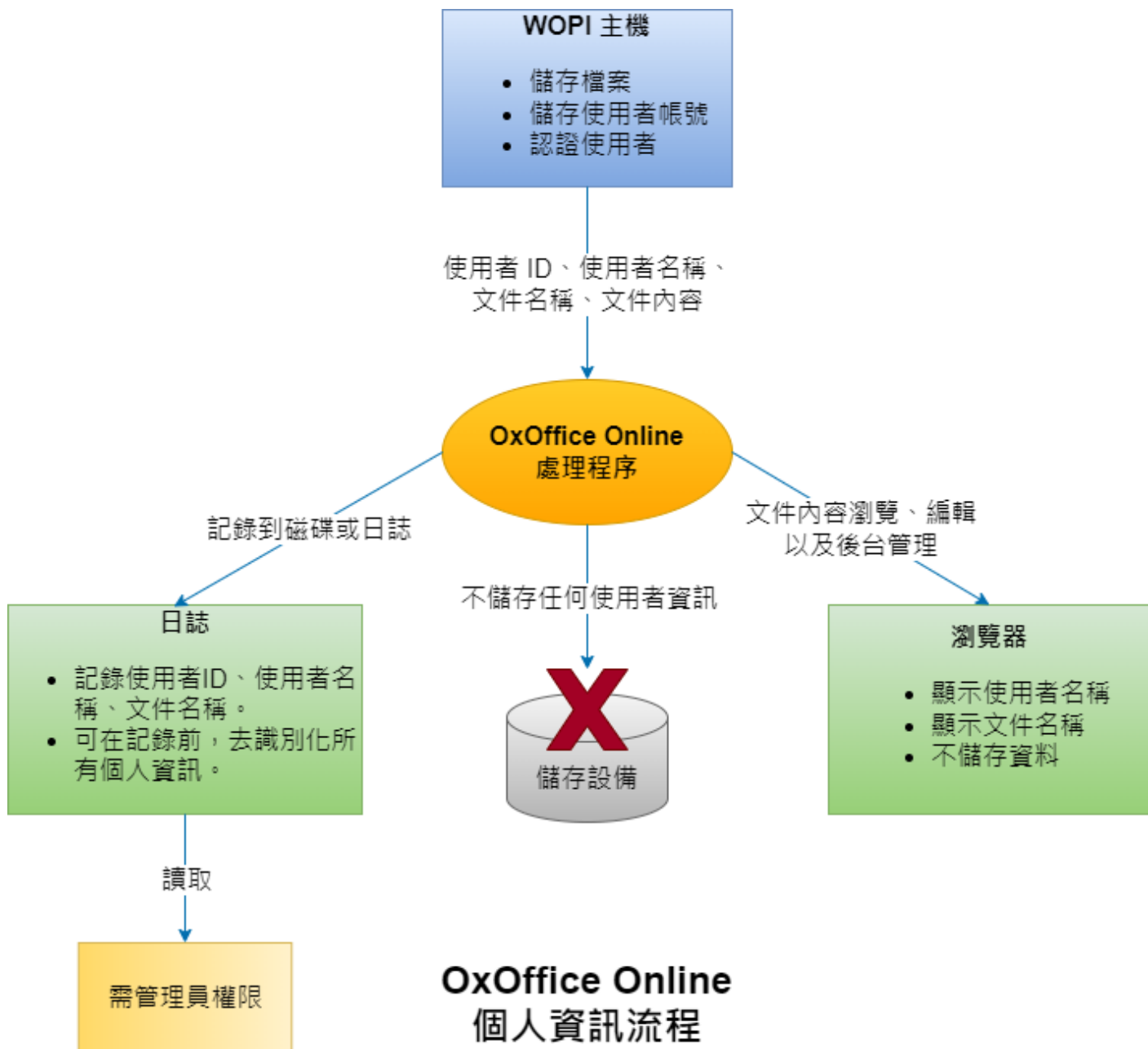


WOPI docs.








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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	
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MessageID	Values	
Get_Views_Resp	<div>[{ ViewId: <Number> UserId: <String> UserName: <String> Color: <Number> ReadOnly: <Boolean> IsCurrentView: <Boolean> },...]</div>	<div><div>Get_Views</div><div></div></div>
Get_Export_Formats_Resp	<div>[{ Label: <String> Format: <String> },...]</div>	<div><div>Get_Export_Formats</div><div><div>Label</div><div></div><div>Format</div><div></div></div></div>

WOPI

MessageID	Values	
Action_RemoveView	<div>ViewId: <Number></div>	<div><div>Id</div><div></div><div></div></div>

 WOPI

MessageID	Values	
Views_List	<div>Get_Views_Resp</div>	<div><div></div><div></div><div></div></div>

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

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

WOPI

MessageId	Values	Schema
Action_Load_Resp	<div>success: <boolean></div> <div>result: <string></div> <div>errorMsg: <string></div>	<div><div></div><ul style="list-style-type: none">success true falseresult <div></div>errorMsg <div></div><div>WOPI</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	
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Insert_Button	<div>id: <string></div> <div>imgurl: <string></div> <div>hint: <string></div> <div>accessKey: <string></div> <div>mobile: <boolean></div> <div>tablet: <boolean></div> <div>insertBefore: <string></div> <div>unoCommand: <string></div>	
Hide_Button	<div>id: <string></div>	
Show_Button	<div>id: <string></div>	
Remove_Button	<div>id: <string></div>	
Remove_Statusbar_Element	<div>id: <string></div>	

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

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

Python

WOPI

MessageId	Values	
CallPythonScript	<div>ScriptFile: <string></div> <div>Function: <string></div> <div>Values: <object></div>	<div>Python</div> <div> <ul style="list-style-type: none"> ScriptFile Function Values key: value, ... </div>

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