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- [\[ \]](#)
- [\[ \]\[ \]](#)
- [\[ \]\[ \]](#)
- [\[ \]\[ \]\[ \]\[ \]](#) Collabora[ ]
- [\[ \]\[ \]](#)
- [\[ \]\[ \]\[ \]](#)
- [Cookies \[ \]\[ \]\[ \]\[ \]\[ \]](#)
- [PostMessage API](#)

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Web

- OxOffice Online 
-                                                                                                                               

☐ OxOffice Online ☐

WOP1 

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OxOffice Online ☐ ☐ ☐ ☐ ☐ ☐

WOPI□□□□

[illegible]

 **WOPI**   
 **WOPI**                    

[WOPI documentation.](#)

OxOffice Online  
WOPI

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OxOffice Online ??

Web OxOffice Online VM  
WOPI 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 /wopi/files/ /wopi\_implementation/  
/wopi/

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

?????

token OxOffice Online  
access\_token OxOffice Online token  
WOPI WOPI URL

token WOPISrc URL token WOPI  
token token iframe

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WOPI URL OxOffice Online WOPI OxOffice Online

WOPI OxOffice Online WOPIsrc

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

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

OxOffice Online 4 WOPI CheckFileInfo GetFile PutFile PutRelativeFile

token token token URL access\_token=<token> HTTP header OxOffice Online token

Authorization: Bearer <token>

4

1. CheckFileInfo??? URL ?????????? JSON ?????? BaseFileName ? Size?

GET https://<WOPI URL>/<...>/wopi/files/<file id>?access\_token=<token>

OxOffice Online ??? CheckFileInfo ?????

	Data type	Required	
BaseFileName	string	yes	
OwnerId	string	yes	ID
Size	number (int64)	yes	bytes 64

UserId	string	yes	00000000 ID
UserFriendlyName	string	no	0000000000 00000000
UserCanWrite	boolean	no	0000000000 true 0000 false
UserCanNotWriteRelative	boolean	no	0000000000 0000 true
PostMessageOrigin	string	no	0000 OxOffice Online <a href="#">PostMessage API</a> WOPI 0000000000 0000 OxOffice Online 000000
HidePrintOption	boolean	no	00 OxOffice Online 00000000 <a href="#">PostMessage API</a> 00 WOPI 000000 UI
DisablePrint	boolean	no	0000000000 UI 00000000
HideSaveOption	boolean	no	00 OxOffice Online 00000000 <a href="#">PostMessage API</a> 0000000000 0000
HideExportOption	boolean	no	00 OxOffice Online 0000 ... 00000000 <a href="#">PostMessage API</a> 00
DisableInactiveMessages	boolean	no	0000000000 0000000000 0000000000 0000 JavaScript 000000 Session_Closed User_Idle <a href="#">PostMessage API</a> 0000000000 0000
DisableExport	boolean	no	0000000000 0000 UI 00000000
DisableCopy	boolean	no	0000000000 0000000000 00000000

DownloadAsPostMessage	boolean	no	WOPI [ ] Download_As [ ] <a href="#">PostMessage API</a> [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] JSON[ ] <div><pre>{   type:     'print' 'slideshow' 'export',   url: '..[ ] [ ] [ ] [ ]     URL...' }</pre></div>
EnableOwnerTermination	boolean	no	[ ] [ ]
LastModifiedTime	string	no	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] ISO8601 [ ] [ ] [ ] [ ] UTC [ ] [ ] [ ] [ ] YYYY-MM- DDThh:mm:ss.nnnnZ[ ] [ ]
UserExtraInfo	object	no	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] <a href="#">UserExtraInfo Details</a> [ ]

## UserExtraInfo Details?

[ ]	[ ] [ ] Data type[ ]	[ ] Required	[ ]
avatar	string	no	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
mail	string	no	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
ip	string	no	[ ] [ ] IP [ ] [ ] [ ] OxOffice Online [ ] [ ] reverse proxy [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] IP [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] IP [ ] [ ] [ ] [ ] [ ] [ ]

watermark	object	no	<div>Watermark Details</div>
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## Watermark Details?

Property	Data type	Required	Value
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 host 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>

**PUT**

OxOffice Online ☐☐☐☐☐☐

OxOffice Online

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



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 ☐ ☐ ☐ 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 ☐ ☐ npm ☐  
node.js ☐

[ReactJS Example on GitHub](#)

## .NET ??

☐ iFrame ☐ OxOffice Online ☐ .NET ☐

[.NET Example on GitHub](#)

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OxOffice Online ☐☐☐☐

WOPI ☐☐☐☐☐☐☐☐☐☐☐☐☐☐

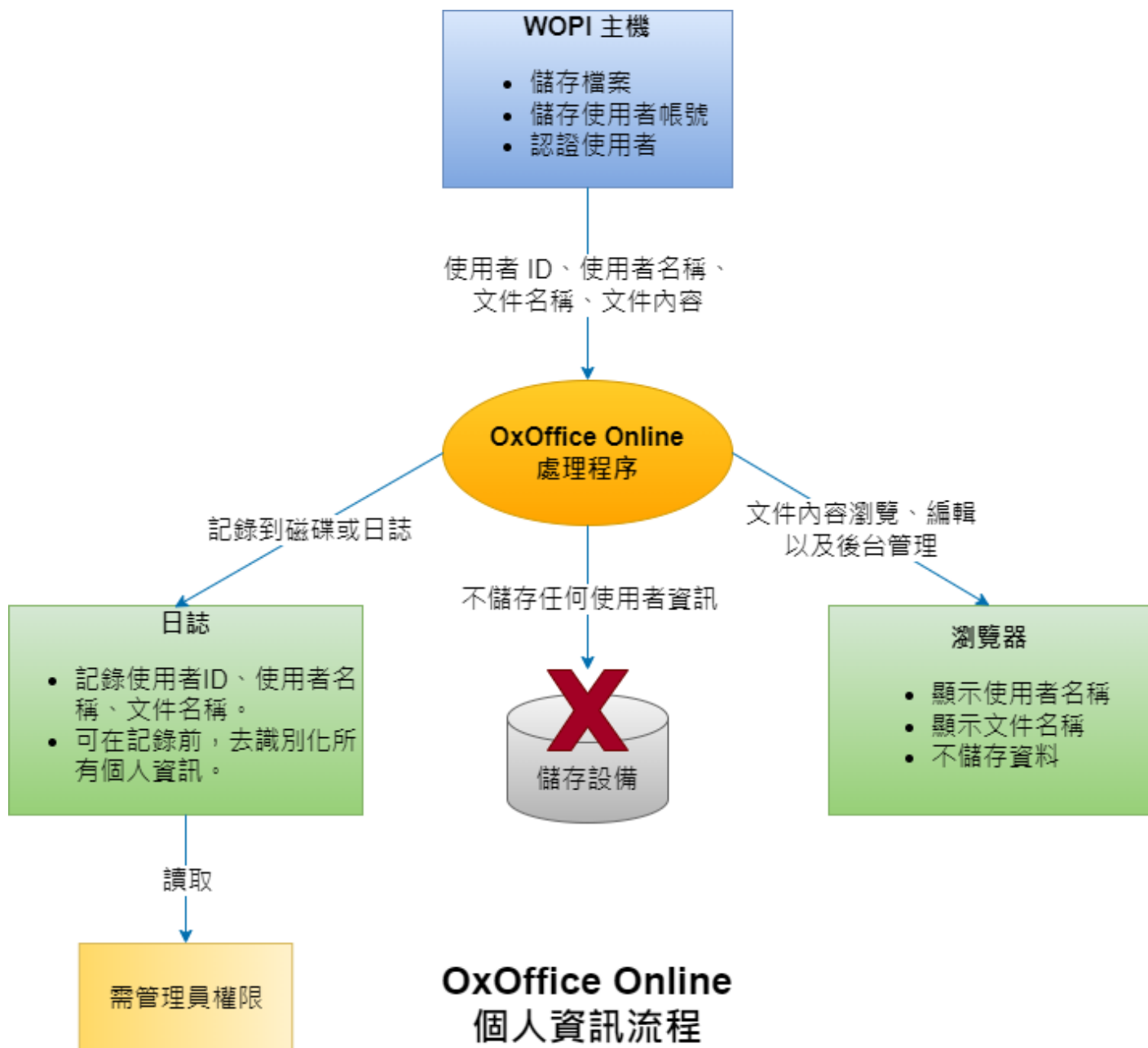
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[WOPI docs.](#)

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OxOffice Online

[CheckFileInfo](#)



# Cookies ????????

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

local storage

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- +

# PostMessage API

WOPI iframe OxOffice Online PostMessage API  
OxOffice Online WOPI

API WOPI

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

SendTime Date.now() WOPI PostMessage

WOPI Host\_PostmessageReady OxOffice Online  
WOPI

OxOffice Online iframe OxOffice Online WOPI  
CheckFileInfo PostMessageOrigin OxOffice Online

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??? ? WOPI ??

MessageID	Values	
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App>LoadingStatus	<div> Status: &lt;String&gt;  DocumentLoadedTime:  &lt;Timestamp&gt;  Features:  {"VersionStates":true} </div>	Status <ul style="list-style-type: none"> <li>• Frame_Ready OxOffice Online</li> <li>• Features</li> <li>• Document_Loaded</li> <li>• Failed</li> </ul>
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WOPI ? ? ? ? ?

MessageID	Values	
Host_PostmessageReady		OxOffice Online WOPI PostMessage

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WOPI 
PostMessage API 
MessageID 
Respon

MessageID

WOPI ? ? ? ? ?

MessageID	Values	
Get_Views		MessageID Get_Views_Resp
Get_Export_Formats		

?? ? WOPI ? ?

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

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WOPI ? ? ? ? ?

MessageID	Values	
Action_RemoveView	<div>ViewId: &lt;Number&gt;</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>

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WOPI ? ? ? ? ?





MessageId	Values	
FollowUser_Changed	<div>FollowedViewId: &lt;Number&gt;</div> <div>IsFollowUser: &lt;Boolean&gt;</div> <div>IsFollowEditor: &lt;Boolean&gt;</div>	<div> <div> </div> <ul style="list-style-type: none"> <li>FollowedViewId <div> </div> </li> <li>IsFollowUser <div> </div> </li> <li>IsFollowEditor <div> </div> </li> <li> <div>IsFollowUser</div> <div>IsFollowEditor</div> <div>false</div> <div> </div> </li> </ul> </div>
Action_ChangeUIMode_Resp	<div>Mode: &lt;string&gt;</div>	<div> <div> </div> <div>Mode</div> <div> </div> </div>

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WOPI ? ? ? ? ?

MessageId	Values	
Host_VersionRestore	<div>Status: &lt;string&gt;</div>	<div> <div> </div> <div>Pre_Restore</div> <div> </div> <div> </div> <div> </div> <div>OxOffice Online</div> <div> </div> <div> </div> </div>

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MessageId	Values	
App_VersionRestore	<div>Status: &lt;string&gt;</div>	<div> <div> <div>Host_VersionRestore</div> </div> <div> </div> <div> <div>Status</div> <div>Pre_Restore_Ack</div> </div> <div> <div>WOPI</div> </div> <div> </div> </div>

App>LoadingStatus

VersionStates

??

WOPI ??? ???

MessageId	Values	
Insert_Button	<div><div>id: &lt;string&gt;</div><div>imgurl: &lt;string&gt;</div><div>hint: &lt;string&gt;</div><div>accessKey: &lt;string&gt;</div><div>mobile: &lt;boolean&gt;</div><div>tablet: &lt;boolean&gt;</div><div>insertBefore: &lt;string&gt;</div><div>unoCommand: &lt;string&gt;</div></div>	<div><div><div></div><div></div></div><div><div>unoCommand</div><div></div></div><div>Clicked_Button<div></div>WOPI<div></div></div><div>WOPI<div></div></div><div><div><div>id<div></div>ID</div><div><div></div><div>ID<div></div></div><div>ID</div><div><div></div><div></div></div></div></div><div><div>imgurl</div><div><div></div><div>24x24 px<div></div></div><div>WOPI</div><div><div></div><div>Content-Security-Policy</div></div></div></div><div><div>hint<div></div></div><div><div>accessKey</div><div><div></div>Alt</div><div>Alt+Shift</div><div><div></div></div></div></div><div><div>mobile</div><div><div></div><div></div></div></div><div><div>tablet</div><div><div></div><div></div></div></div><div><div>insertBefore<div></div><div>ID<div></div></div><div><div></div>ID</div></div></div><div><div>unoCommand</div><div>UNO<div></div><div></div></div><div><div></div><div></div><div>Clicked_Button<div></div></div><div>WOPI<div></div></div><div>LibreOffice</div><div><div></div></div></div></div></div></div>
Hide_Button	<div><div>id: &lt;string&gt;</div></div>	<div><div><div></div><div>id<div></div>ID</div><div><div></div>ID</div></div></div>
Show_Button	<div><div>id: &lt;string&gt;</div></div>	<div><div><div></div><div>id<div></div>ID</div><div><div></div>ID</div></div></div>

MessageId	Values	
Remove_Button	<div>id: &lt;string&gt;</div>	<div><div>id ID</div><div>ID</div></div>
Remove_Statusbar_Element	<div>id: &lt;string&gt;</div>	<div><div>id ID</div><div>ID</div></div>
Hide_Menubar		
Show_Menubar		
Grab_Focus		<div><div>Grab_Focus</div></div>
Hide_Ruler		<div>Writer</div>
Show_Ruler		<div>Writer</div>
Hide_Menu_Item	<div>id: &lt;string&gt;</div>	<div><div>id ID</div><div><ul style="list-style-type: none"><li><a href="#">uiconfig/text/menubar.json</a></li><li><a href="#">uiconfig/spreadsheet/menubar.json</a></li><li><a href="#">uiconfig/presentation/menubar.json</a></li><li><a href="#">uiconfig/drawing/menubar.json</a></li></ul></div></div>
Show_Menu_Item	<div>id: &lt;string&gt;</div>	<div><div>id ID</div><div>Hide_Menu_Item</div></div>

MessageId	Values	
Disable_Default_UIAction	<div>action: &lt;string&gt; disable: &lt;Boolean&gt;</div>	<div><div>UI</div><div><div>• action</div><div>• disable (true)</div><div>(false)</div></div><div>true</div><div>postMessage</div><div>WOPI postMessage</div><div></div><div>UI_SaveAs UI_Share</div><div>postMessage</div><div></div><div>UI_Save</div><div></div><div>Disable_Default_UIAction</div><div>UI_Save</div><div>UI_Save WOPI</div><div></div><div>Action_Save</div><div>UI_Close</div><div>UI_Close</div><div>postMessage WOPI</div><div>Action_Close</div><div>WOPI</div><div>Action_xxyzz</div><div>UI_Save UI_Close</div><div>UI_Hyperlink</div></div>
Send_UNO_Command	<div>Command: &lt;string&gt; Args: &lt;object&gt;</div>	<div>UNO</div> <div><a href="#">framed.doc.html</a></div>

??????? ID

ID getToolItems/create

- Control.TopToolbar.js

- [Control.MobileTopBar.js](#) [ ]
- [Control.MobileBottomBar.js](#) [ ]
- [Control.StatusBar.js](#) [ ]

[ ] ID [ ]

??????? ID

[ ] ID [ ] [Control.StatusBar.js](#) [ onDocLayerInit [ ] ID [ ]

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??? ? 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>Modified</div> <div></div> <div></div>

# ?? Python ??

WOPI ? ? ? ?

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

??? ? WOPI ?

MessageId	Values	
CallPythonScript-Result	<div>commandName: &lt;string&gt; Values: &lt;object&gt;</div>	<div><div>Python</div><div>commandName</div><div>URL</div></div>