



# BlackBerry Workspaces Online Viewer Integration Guide

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## Introduction

BlackBerry Workspaces Online Viewer is an Angular application that utilizes pdf.js to enable the ability to view protected documents in an integrated online viewer in an online web service or custom application. The viewer can be integrated into any browser window in a custom application inside an iframe.

The BlackBerry Workspaces Online Viewer iframe and parent window communicate via the postMessages API. The message objects are of the following form:

```
{
    "id": "MESSAGE_ID"
    "context": {
        // optional values relevant to the specific message
        "key1": "value1",
        "key2": "value2",
        ...
    }
}
```

### Integrate the online viewer in a web page

Follow these instructions to display a document in the web browser.

- Create an iframe element with a <src> value that points to where the online viewer is hosted: {domain} / mobile/v.
- 2. Attach an event listner to the window, waiting for a message event. The first message event the web app receives contains the VIEWER:READY ID, which means that the online viewer has finished loading and is now waiting for the containing web app to send all the relevant values via a PARENT:INIT postMessage.
- 3. For files in a workspace, define the message with the following values:
  - accessToken: string
  - simpleShare: boolean
  - documentGuid: string
- 4. For files in an external repository, define the message with the following values:
  - accessToken: string
  - simpleShare: boolean
  - transient: boolean
  - documentPath: string
  - workspaceGuid: string

The document will be displayed once the online viewer receives the message.

5. Optional: Define that the parent page send a new access token to the online viewer ifram using the PARENT:SET\_ACCESS\_TOKEN message:

```
{
    "id": "PARENT:SET_ACCESS_TOKEN",
    "context": {
        "accessToken": "new_access_token"
    }
}
```

- 6. Optional: Define that the online viewer iframe inform the parent about various actions and state changes in the online viewer:
  - VIEWER: INVALID\_ACCESS\_TOKEN
  - VIEWER:DOCUMENT\_NOT\_FOUND
  - VIEWER:NO\_PERMISSION\_FOR\_RECIPIENT
  - •
    VIEWER:REQUEST\_EXTENSION (context: { expired: boolean })
  - VIEWER:PRINT\_PERMISSION\_REQUEST (context: { name: string })
  - VIEWER: CONVERSSION\_TIMEOUT
  - VIEWER: CONVERSION\_FAILED
  - VIEWER:MAX\_SIZE\_EXCEEDED
  - VIEWER: UNEXPECTED\_ERROR

## Example

The following example shows a typical online viewer intgration with a web application.

```
<!DOCTYPE html>
<html>
<head>
</head>
<style>
   iframe { width: 100%; height: 100%; position: absolute; top: 50px; left: 0; }
</style>
<body>
    <div class="inputs">
        <input type="text" placeholder="access token" id="accessToken">
        <input type="text" placeholder="document guid" id="documentGuid"
 value="8c68619e-1d94-4040-9838-03856316b365">
        <button id="go"> GO </button>
    </div>
    <script>
        const goButton = document.getElementById('go');
        const viewerElem = document.createElement('iframe');
        viewerElem.src = "https://wap.sealdoc.com/mobile/v";
        goButton.onclick = () => {
            document.body.appendChild(viewerElem);
            window.addEventListener('message', (event) => {
                if (!event.data || !event.data.id) {
                    return;
                }
                switch (event.data.id) {
                    case 'VIEWER:READY':
                        const accessToken =
 document.getElementById('accessToken').value;
                        const documentGuid =
 document.getElementById('documentGuid').value;
                        viewerElem.contentWindow.postMessage({ id: 'PARENT:INIT',
 context: { accessToken, documentGuid } }, '*');
                        break;
                    case 'VIEWER:INVALID_ACCESS_TOKEN':
                        viewerElem.contentWindow.postMessage({ id:
 'PARENT:SET_ACCESS_TOKEN', context: { accessToken: 'new_access_token' } }, '*');
                        break;
                    case 'VIEWER:DOCUMENT_NOT_FOUND':
                        break;
                    case 'VIEWER:NO_PERMISSION_FOR_RECIPIENT':
                        break;
                    case 'VIEWER:PERMISSION_EXPIRED':
                        break;
```

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