

WebReader

Configuration and User's Guide

Version 10.1
October 2017

WEBMETHODS

This document applies to WebReader 10.1 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 About this Guide

This guide describes how to deploy, configure and use the webMethods CSP Light WebReader 10.1. It contains detailed information for deploying and configuring the WebReader to run on My webMethods Server. It also provides an introduction into the use of the webMethods CSP Light WebReader 10.1.

To use this guide effectively, you should be familiar with:

- The setup and operation of My webMethods Server
- The setup and operation of the database used by My webMethods Server and the CSP Light WebReader.
- Terminology and basic operations of your operating system

1.1 Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Narrowfont	Identifies storage locations for services on webMethods Integration Server, using the convention <i>folder.subfolder:service</i> .
UPPERCASE	Identifies keyboard keys. Keys you must press simultaneously are joined with a plus sign (+).
<i>Italic</i>	Identifies variables for which you must supply values specific to your own situation or environment. Identifies new terms the first time they occur in the text.
Monospace font	Identifies text you must type or messages displayed by the system.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol.
[]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

1.3 Online Information

Software AG Documentation Website

You can find documentation on the Software AG Documentation website at <http://documentation.softwareag.com>. The site requires Empower credentials. If you do not have Empower credentials, you should use the TECHcommunity website.

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You can find product information on the Software AG Empower Product Support website at <https://empower.softwareag.com>.

To submit feature/enhancement requests, get information about product availability, and download products, go to [Products](#).

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- Link to external websites that discuss open standards and web technology.

Data Protection

With respect to the EU General Data Protection Regulation (GDPR), our product does not store, collect or process any personal information.

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

2 WebReader Deployment into MWS

The WebReader is delivered by the Software AG Installer as a series of three WAR files that work in combination to prepare and display documents in the WebReader. The Software AG Installer places those WAR files under `WM_HOME\CSP Light\webclient`. The deployment of those WAR files to MWS is minimal and requires only slight configuration.

Perform the following steps to install the WebReader:

1. Set the environment variables in your target My webMethods Server conf file. These values are then used as part of HTTP(S) calls to access the WebReader. Also, update My webMethods server's default heap size. For more details, see [Environment variables](#).
2. Edit a JSON configuration file. For more details, see [Edit JSON Configuration File](#).
3. Deploy three WAR files and a JAR file to your target My webMethods installation. For more details, see [Deploy files to My webMethods Server](#).

2.1 Additional Software Installation

If you have the need to display **Office files** in the WebReader, we highly recommend to run MWS on a **Windows machine**. The reason for it is that Office files must be converted to be displayable in the WebReader. For the conversion, we require an additional **Microsoft Office 2010 or 2016** installation in combination with the installed **Office Converter tool** (that comes with the Content Adapter package as `office_converter-*-setup.exe`).

To install the Office Converter tool, execute the aforementioned executable and make sure it is installed into this location `C:\Braintribe\Tools\Conversion\OfficeConverter\`.

Note: if for certain reasons you cannot run MWS on a Windows machine there is a fallback to a 3rd party library to convert MS Office files. Based on our experience this can cause issues in rare situations. We experienced problems and weaker conversion results with certain Office files, thus do not recommend this approach.

2.2 Environment variables

This section helps you to configure some environment variables and change the heap size in My webMethods, which is done by editing the configuration file in following location:

`<WM_HOME>\profiles\MWS_default\configuration\wrapper.conf.`

Parameter	Description
<code>set.TRIBEFIRE_STORAGE_DIR</code>	The location of the storage.
<code>set.TRIBEFIRE_MASTER_BASE_URL</code>	The URL pointing to the servlet container
<code>set.TRIBEFIRE_SERVICES_URL</code>	The URL pointing to tribefire services
<code>set.TRIBEFIRE_LOCAL_BASE_URL</code>	The URL pointing to the extension container

set.TRIBEFIRE_CONFIGURATION_DIR	The location of the resources-configuration file
---------------------------------	--

Example

```
# the base URL of the services tomcat
set.TRIBEFIRE_MASTER_BASE_URL=http://localhost:8585

# The exact URL of the tf services
set.TRIBEFIRE_SERVICES_URL=http://localhost:8585/tribefire-services

# The address of the cartridge tomcat
set.TRIBEFIRE_LOCAL_BASE_URL=http://localhost:8585

# Storage
set.TRIBEFIRE_STORAGE_DIR=WM_HOME\CSP Light\Resources\storage

# Configuration
set.TRIBEFIRE_CONFIGURATION_DIR=WM_HOME\CSP Light\Resources\conf
```

Additionally, it is recommended to increase the default heap size of My webMethods Server using the following:

Initial Java Heap Size (in MB)

```
wrapper.java.initmemory=2048
```

Maximum Java Heap Size (in MB)

```
wrapper.java.maxmemory=6144
```

2.3 Edit JSON Configuration File

You must set some parameters for connecting to a database in the configuration file found in, WM_HOME\CSP Light\Resources\conf\configuration.json.

Note: • The provided users should have the permissions to create tables in your database.

- My webMethods Server and CSP Light WebReader should use the same database.

JSON Conf file:

```
{
  "_type" : "com.braintribe.configurator.url.model.RegistryEntry",
  "bindId" : "WEBREADER_DATABASE",
  "denotation" : {
```

```

    "_type" : "com.braintribe.model.accessdeployment.jdbc.GenericJdbcConnector",
    "user" : "<USER_NAME>",
    "password" : "<PASSWORD>",
    "url" : "<JDBC_URL>",
    "driver" : "<JDBC_DRIVER>"
  }
}

```

JSON Conf file - Example:

```

{
  "_type" : "com.braintribe.configurator.url.model.RegistryEntry",
  "bindId" : "WEBREADER_DATABASE",
  "denotation" : {
    "_type" : "com.braintribe.model.accessdeployment.jdbc.GenericJdbcConnector",
    "user" : "csp",
    "password" : "operating",
    "url" : "jdbc:wm:wrapper:sqlserver://localhost:1433;databaseName=csp",
    "driver" : "com.wm.dd.jdbcw.sqlserver.SQLServerWDriver"
  }
}

```

The “URL” and “driver” values could be any of the following:

SQL Server

JDBC_DRIVER_VALUE: com.wm.dd.jdbcw.sqlserver.SQLServerWDriver

URL (sample): jdbc:wm:wrapper:sqlserver://<server>:<port>;databaseName=<database name>

Oracle

JDBC_DRIVER_VALUE: com.wm.dd.jdbcw.oracle.OracleWDriver

URL (sample):

jdbc:wm:wrapper:oracle://<server>:<port>;serviceName=<value>[;<option>=<value>...]

DB2

JDBC_DRIVER_VALUE: com.wm.dd.jdbcw.db2.DB2WDriver

URL (sample): jdbc:wm:wrapper:db2://<server>:<port>;databaseName=<database name>

2.4 Deploy files to My webMethods Server

Copy the WAR files and a JAR file from the following location to My webMethods Server installation respectively:

- WM_HOME\CSP Light\webclient\

- WM_HOME\CSP Light\lib\

For example:

WM_HOME\MWS/server/default/deploy

3 WebReader Introduction

The WebReader is a lightweight document viewer. Accessed via an HTTP called with an appropriate Document ID, you can view documents, add comments and perform full text searches for keywords in your documents.

To make sure those features work the same way independently from original document type and without any necessary browser plugin, the original documents are converted into graphical image renditions that get displayed in the WebReader.

The current version supports to display the following formats:

- PDF
- Image files (JPEG, PNG, TIFF)
- Office formats (Word, Excel, PPT). See chapter 2.1 for pre-requisites.

3.1 Uploading Documents

It is possible to upload a document for viewing in the WebReader.

Note: The uploaded file will only be kept temporarily for conversion purposes.

For testing purposes, navigate to the Document Upload Screen by entering the following HTTP address in your browser:

`http://localhost:8585/tribefire-transformation-cartridge/docupload`



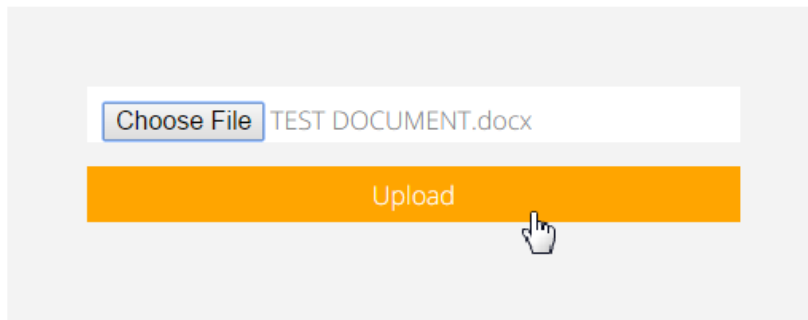
Upload document

A form for uploading a document. It features a 'Browse...' button next to a text input field containing 'No file selected.'. Below the input field is a prominent orange 'Upload' button.

Click **Choose File** and browse to the file that you wish to upload. The name of the file being uploaded will be displayed in the text field next to the upload button. Next click the **Upload** button to upload your file.



Upload document



As a result to the upload, you will receive a Document ID, which can be used as part of the HTTP call to **view** this document in the WebReader. The highlighted ID shown in the screenshot below is considered the Document ID.

```

{
  "_type" : "set",
  "value" : [ {
    "_id" : "0",
    "_type" : "com.braintribe.model.document.Document",
    "creationState" : null,
    "heightInCm" : {
      "_type" : "double",
      "value" : 0.0
    }
  },
  {"id" : "88e4a826-c06b-4458-9ffb-1a87c7f1f6ec"},
  "lastCreationFinished" : null,
  "lastCreationStarted" : null,
  "name" : "TEST DOCUMENT.docx",
  "pages" : null,
  "representations" : [ {
    "_id" : "1",
    "_type" : "com.braintribe.model.resource.Resource",
    "created" : {
      "_type" : "date",
      "value" : "2016-04-28T16:02:41.846+0200"
    },
    "creator" : null,
    "fileSize" : {
      "_type" : "long",
      "value" : "12723"
    },
    "id" : "160428160241-bef62c3b-4465-452d-a685-85c229236cff",
    "md5" : "87da26eaadaa2bdfb3d94147e7ca4ad",
    "mimeType" : "application/vnd.openxmlformats-officedocument.wordprocessingml.document",
    "name" : "TEST DOCUMENT.docx",
    "resourceSource" : {
      "_id" : "2",
      "_type" : "com.braintribe.model.resource.source.StaticSource",
      "id" : "160428160241-bef62c3b-4465-452d-a685-85c229236cff",
      "resolverURI" : "1604/2816/02/6fd000ff-34ac-4181-a5a8-9676389c9a5d"
    },
    "securityPolicy" : null,
    "specification" : null,
    "tags" : null
  } ],
  "securityPolicy" : null,
  "sourceRepresentation" : {
    "_ref" : "1"
  },
  "widthInCm" : {
    "_type" : "double",
    "value" : 0.0
  }
} ]
}

```

Without the graphical interface, you would use the following POST call to trigger the upload:

```

http://<servername>:<serverport>/tribefire-transformation-cartridge
/docupload?accessId=access.document&fileName=<filename>&createPages=true&preloadPages=true

```

Parameter	Type	Description	required
servername	String	The URL of the CSP Connectivity Package Server	yes
serverport	Int	The port of the CSP Connectivity Package Server	yes
fileName	String	The desired filename	yes

createPages	Boolean	Determines if stubs for the document should be created automatically (default: true)	no
preloadPages	Boolean	Determines whether the pages of the document should be preloaded in the cache (default: true)	no

Note: preloadPages increases the display time later in the WebReader significantly as the document gets converted immediately after upload causing the graphical renditions to be cached. If you want to upload a lot of documents at once, consider setting it to false.

3.2 Viewing a document in the WebReader

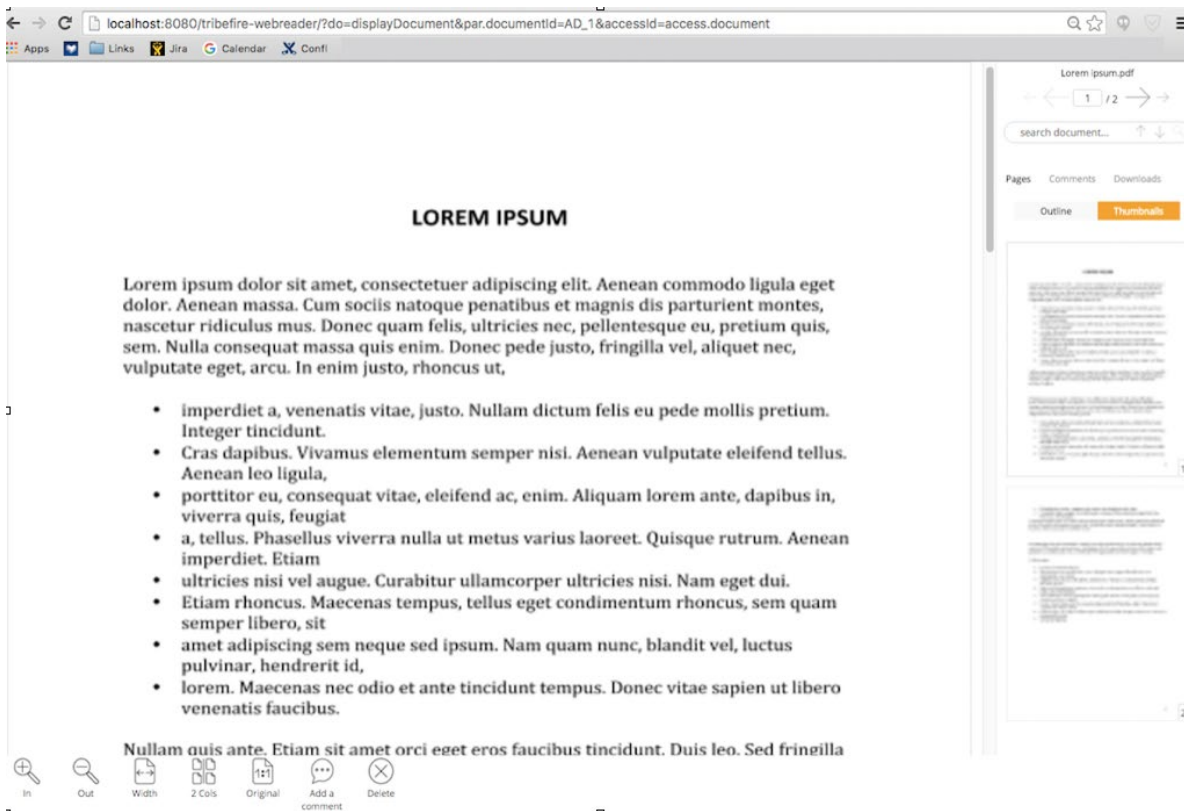
After uploading, the document can be displayed in the WebReader.

The URL for opening the document in the WebReader is:

```
http://<servername>:<serverport>/tribefire-
webreader/?do=displayDocument&par.documentId=<document
ID>&accessId=access.document&sessionId=<sessionId>
```

Parameter	Type	Description	required
servername	String	The URL of the CSP Connectivity Package Server	yes
serverport	Int	The port of the CSP Connectivity Package Server	yes
documentId	String	The id of the document can be read from the returned JSON object provided after uploading the document	yes
sessionId	String	The id of the session	no

If you skip the sessionId, you will be prompted to log into the WebReader. To login, use the default credentials (username: **cortex** and password: **cortex**). Once logged in, the WebReader document is opened in your browser.



3.2.1 Creating a sessionID

If you want to use a sessionID, it can be created with a REST call:

```
http://<servername>:<serverport>/tribefire-
services/rest/authenticate?password=<PASSWORD>&user=<USERNAME>
```

Parameter	Type	Description	required
servername	String	The URL of the CSP Connectivity Package Server	yes
serverport	Int	The port of the CSP Connectivity Package Server	yes
password	String	Your password	yes
username	String	Your username	yes

To view the TestDocument we uploaded before, the calls would look like:

Example without SessionID:

```
http://localhost:8080/tribefire-
webreader/?do=displayDocument&par.documentId=88e4a826-c06b-4458-9ffb-
1a87c7f1f6ec&accessId=access.document
```

Example with SessionID



```
http://localhost:8080/tribefire-  
webreader/?do=displayDocument&par.documentId=88e4a826-c06b-4458-9ffb-  
1a87c7f1f6ec&accessId=access.document&sessionId=b731b02e-5e57-4a43-  
9676-107c8a47bd22
```






4 WebReader Overview

The WebReader can be divided into following three main areas:



1. To display the actual document
2. The menu panel, where you can view thumbnails, comments and also the option to download the document
3. The WebReader Toolbar

Icon	Description
 In	Zooms into the document.
 Out	Zooms out from the document.

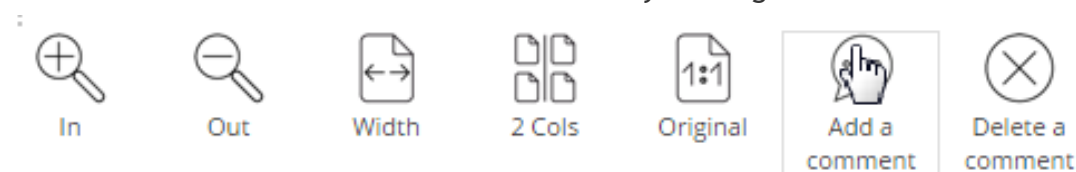
Icon	Description
 Width	Resizes the document to the dimensions of the display.
 2 Cols	Zooms out and shows the document pages in 2 columns.
 Original	Resizes the document to its original dimensions.
 Add a comment	Adds a comment to the current page.
 Delete a comment	Deletes the currently selected document.

5 WebReader Comments



Add a

You can add a new comment to the document by clicking the **comment** button.



The **Add a Comment** panel is displayed, to add a new comment. Each comment allows a maximum of 255 characters, and a counter underneath the text area displays how many characters have been used.

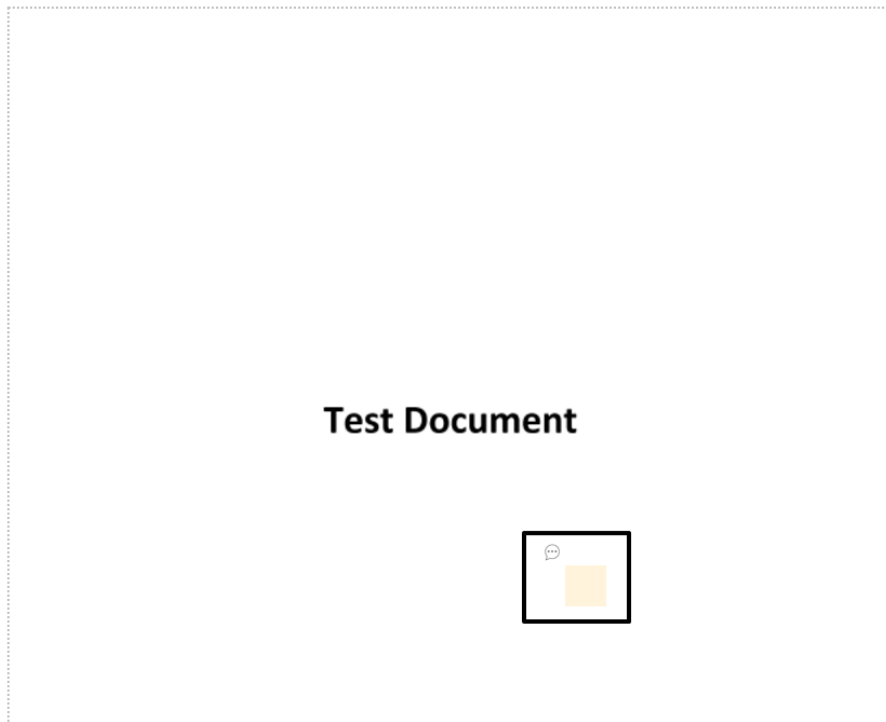
Add a comment

Document, Page 1, 27 Jan 2016

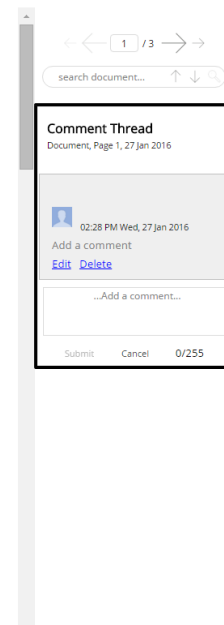
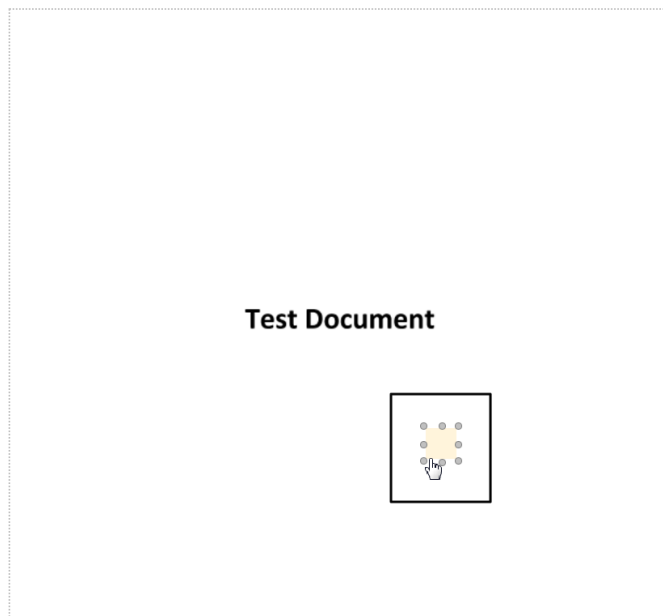
Add a comment

13/255

When you have finished writing a comment, click **Submit** to add a new comment or click **Cancel** which returns to the WebReader without creating a new comment. If a new comment is created, it appears on the page displayed as a colored block with a message icon above it.



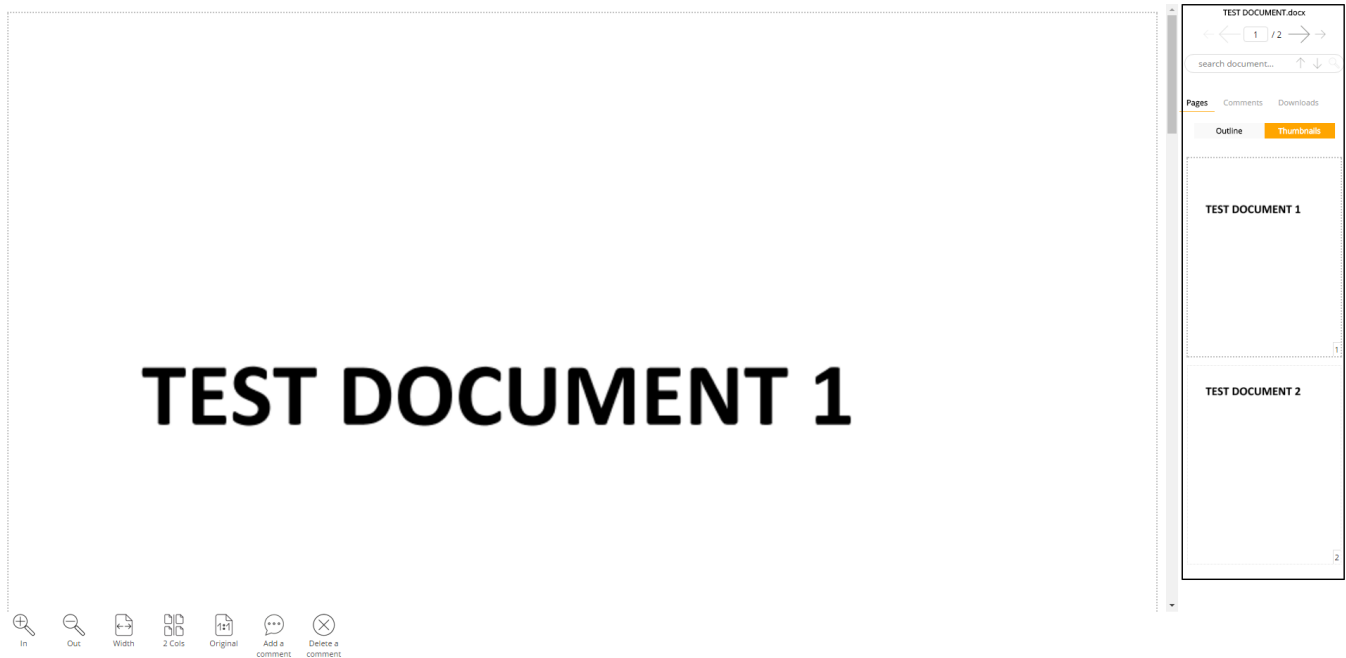
Click on the comment to display its thread on the menu panel.



From the menu panel, you can add a new comment or a delete comment from the thread, as well as editing any.

6 WebReader Menu Panel

The menu panel appears in the right section of the WebReader. This panel displays all the relevant information of the document. You can view the details of the document, thumbnails, comments, as well as being able to download the original document.



The menu panel contains three tabs, a full text search field and a page browser.

6.1 Page Browser

The Page Browser contains four arrows as well as the current page and the total number of pages.



Click on the outer arrows to take you to the first page, the outer-left arrow, or last page, the outer-right arrow, of the document. The inner arrows will navigate through the pages; the inner-left arrow will take you back a page and the inner-right arrow will take you forward a page. You are also able to jump to a specific page by entering its number in the current page text field.

6.2 Full Text Search

Underneath the **Page Browser** is the full text search field, allowing you to search the document for key words.



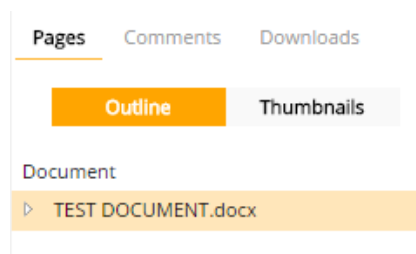
At the right corner of the search field are following three icons:



The magnifying glass icon performs the full text search while the two arrows cycle through results, with the up arrow moving back one and the down arrow moving to the next instance.

6.3 Menu Panel Tabs


The following are the tabs displayed on the menu panel:



6.3.1 Pages

The **Pages** tab contains two further sub-tabs:

- Outline
- Thumbnails

The **Outline** tab provides an overview of the document. You can view its properties by clicking the  icon. The **Thumbnails** tab displays, naturally enough, the thumbnails for the document.

Pages Comments Downloads

Outline Thumbnails

Document

TEST DOCUMENT.docx

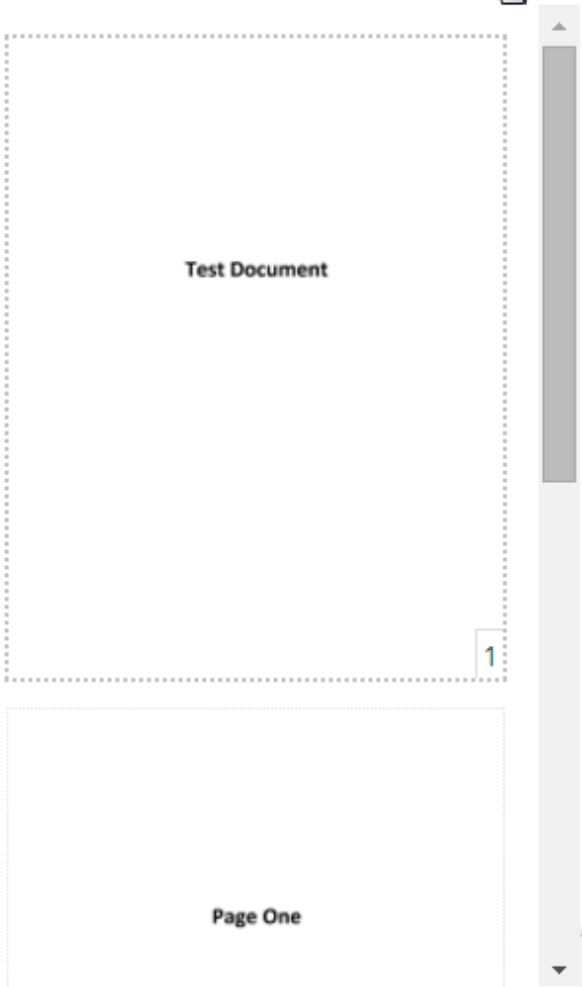
Page 1

▸ Page 2

You can scroll through the **Thumbnails**. Click on a specific thumbnail to display the respective page in the WebReader.

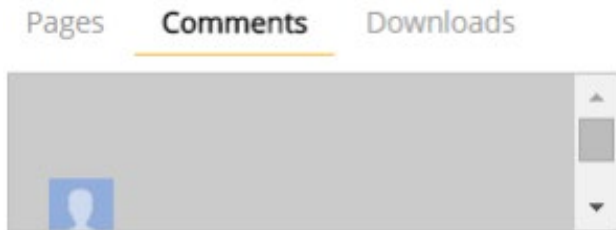
Pages Comments Downloads

Outline **Thumbnails**



6.3.2 Comments

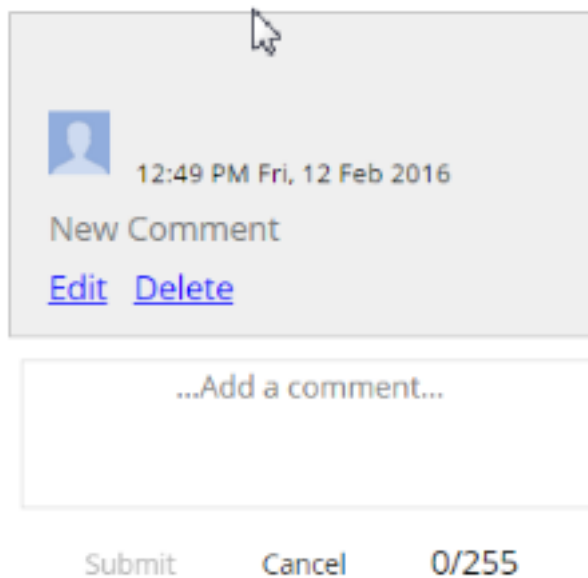
The **Comments** tab displays all the comments that have been added to the document. See WebReader Comments how to create a new comment on the document.



Clicking on the comment displays the full comment.

Comment Thread


Document One, Page 1, 12 Feb 2016

A screenshot of a comment thread in WebReader. The thread is titled 'Comment Thread' and is for 'Document One, Page 1, 12 Feb 2016'. The comment itself is in a grey box and shows a blue profile picture icon, the time '12:49 PM Fri, 12 Feb 2016', and the text 'New Comment'. Below the text are two blue links: 'Edit' and 'Delete'. Below the comment box is a white text input field with the placeholder text '...Add a comment...'. At the bottom of the input field are three buttons: 'Submit', 'Cancel', and '0/255'.

You can then enter a reply to the comment or click **Cancel** to return to the Menu Panel.

Comment Thread

Document One, Page 1, 12 Feb 2016

12:49 PM Fri, 12 Feb 2016
New Comment
[Edit](#) [Delete](#)


...Add a comment...

Submit Cancel 0/255

6.3.3 Download

The **Download** tab shows the downloadable representations that are available for this document. Click on Document to download it.

Pages Comments **Downloads**

 [TEST DOCUMENT.docx](#) 