



## Object

This plugin displays the content of either a folder or a file by relying on [applink](#) feature of [Oracle Content & Experience Cloud Service](#) (formerly Oracle documents Cloud Service).

cf [documentation](#)

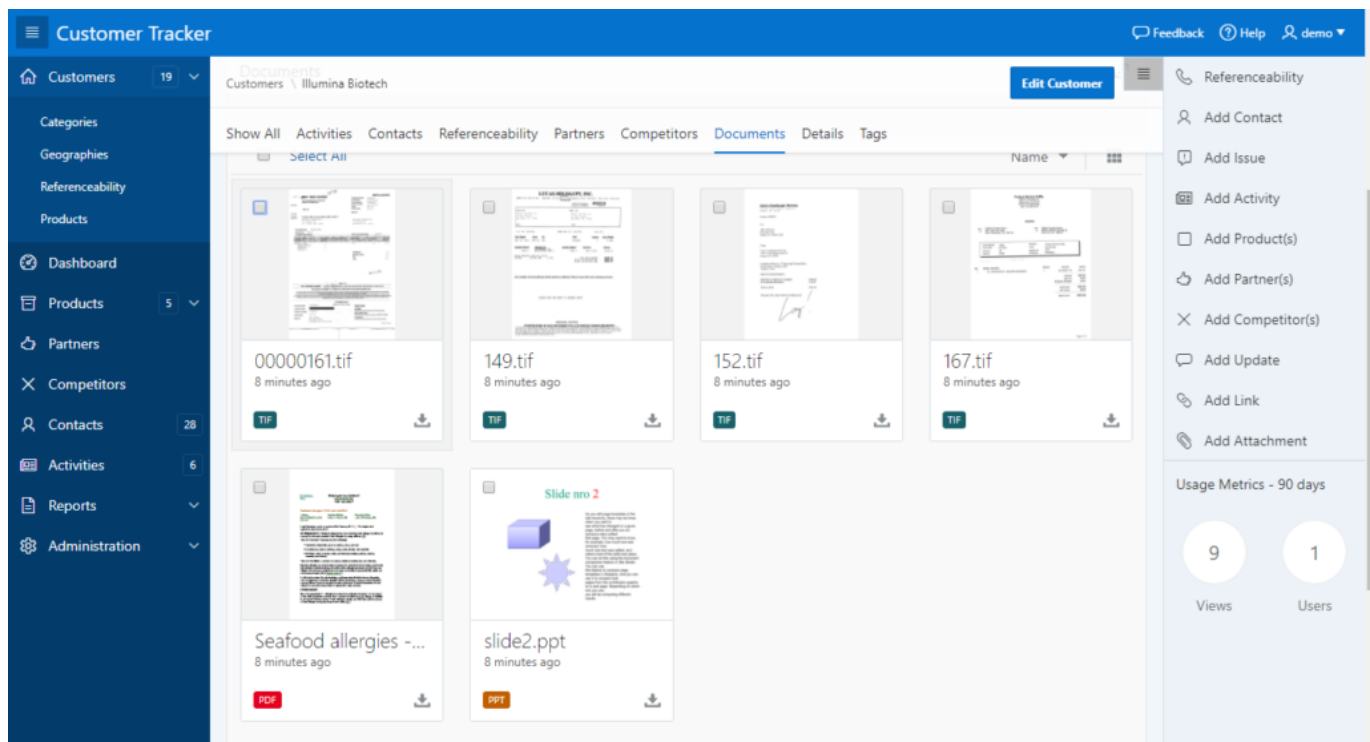
cf [Vidéo](#)

The following sample show integration of this plugin in the packaged application *Customer Tracker*.

The screenshot displays the 'Customer Tracker' application interface. The top navigation bar is blue with the title 'Customer Tracker' and links for 'Feedback', 'Help', and 'demo'. The left sidebar is dark blue with a menu including 'Customers' (19), 'Categories', 'Geographies', 'Referenceability', 'Products', 'Dashboard', 'Products' (5), 'Partners', 'Competitors', 'Contacts' (28), 'Activities' (6), 'Reports', and 'Administration'. The main content area has a breadcrumb 'Customers \ Illumina Biotech' and a table of customer data. Below this, a tabbed interface shows 'Documents' selected. The 'Documents' tab displays a list of files with columns for checkboxes, icons, names, sizes, and creation dates. The files listed are: '00000161.tif' (79 KB), '149.tif' (35 KB), '152.tif' (12 KB), '167.tif' (18 KB), 'Seafood allergies - Fish and shellfish.pdf' (231 KB), and 'slide2.ppt' (104 KB). All files were created 24 minutes ago by Patrick Monaco. A right sidebar contains a 'Referenceability' section with links like 'Add Contact', 'Add Issue', 'Add Activity', etc., and a 'Usage Metrics - 90 days' section showing '19 Views' and '1 Users'.

	View	Download	Move	Copy	Upload New Version	Version History	More	Name	
<input checked="" type="checkbox"/>								00000161.tif	79 KB
Created 24 minutes ago by Patrick Monaco									
<input type="checkbox"/>								149.tif	35 KB
Created 24 minutes ago by Patrick Monaco									
<input type="checkbox"/>								152.tif	12 KB
Created 24 minutes ago by Patrick Monaco									
<input type="checkbox"/>								167.tif	18 KB
Created 24 minutes ago by Patrick Monaco									
<input type="checkbox"/>								Seafood allergies - Fish and shellfish.pdf	231 KB
Created 24 minutes ago by Patrick Monaco									
<input type="checkbox"/>								slide2.ppt	104 KB
Created 24 minutes ago by Patrick Monaco									

A region named documents, based on the plugin, has been added to the other tabs.



## Prerequisites:

- Subscription to Oracle Content & Experience Cloud Service (CEC)
- Instance of Oracle Apex which allows to add certificate (this is not the case for apex.oracle.com)
- [Install certificate with orapki](#)
- Setup wallet credentials in Apex admin interface (once)
- Have valid credentials for a CEC member who is owner or manager of folders
- have following informations on hand:
  - Oracle identity domain the content instance is attached with
  - credentials of member who is owner or manager of file or folder
- Member GUID who will be assigned with the applink (can be different from previous one)
- Folder or File GUID



## Process

The plugin starts by [creating an applink](#) . A plsql code is used for calling a REST Api through https and this is the reason why a certificate must be added previously in the db wallet. During the call, we must give:

1. the folder GUID,
2. the role assigned to the user in the apex session,
3. the User locale,
4. and the CEC member assigned to.

Once the applink has been called, the plugin get the following informations:

- iframe url
- Access Token
- Refresh token

Then, the plugin generates specific Javascript code which fills the Div container for the iframe.

Once the APEX session is terminated, the Apex user will not be able to access to the folder. This is why Applink is well suited for contextual (in the context of an application) usage of CEC.

## Authentication

The plugin need a basic authentication which is done by the server at plsql level (Apex).

OAuth is not use because the flow implemented by CEC involve a manual login from



user (through OAM).

in other words, [Oauth, in this version, doesn't implement Client Credential Oauth flow.](#)

In the plugin, the credential will be passed as a base64 encoded value.

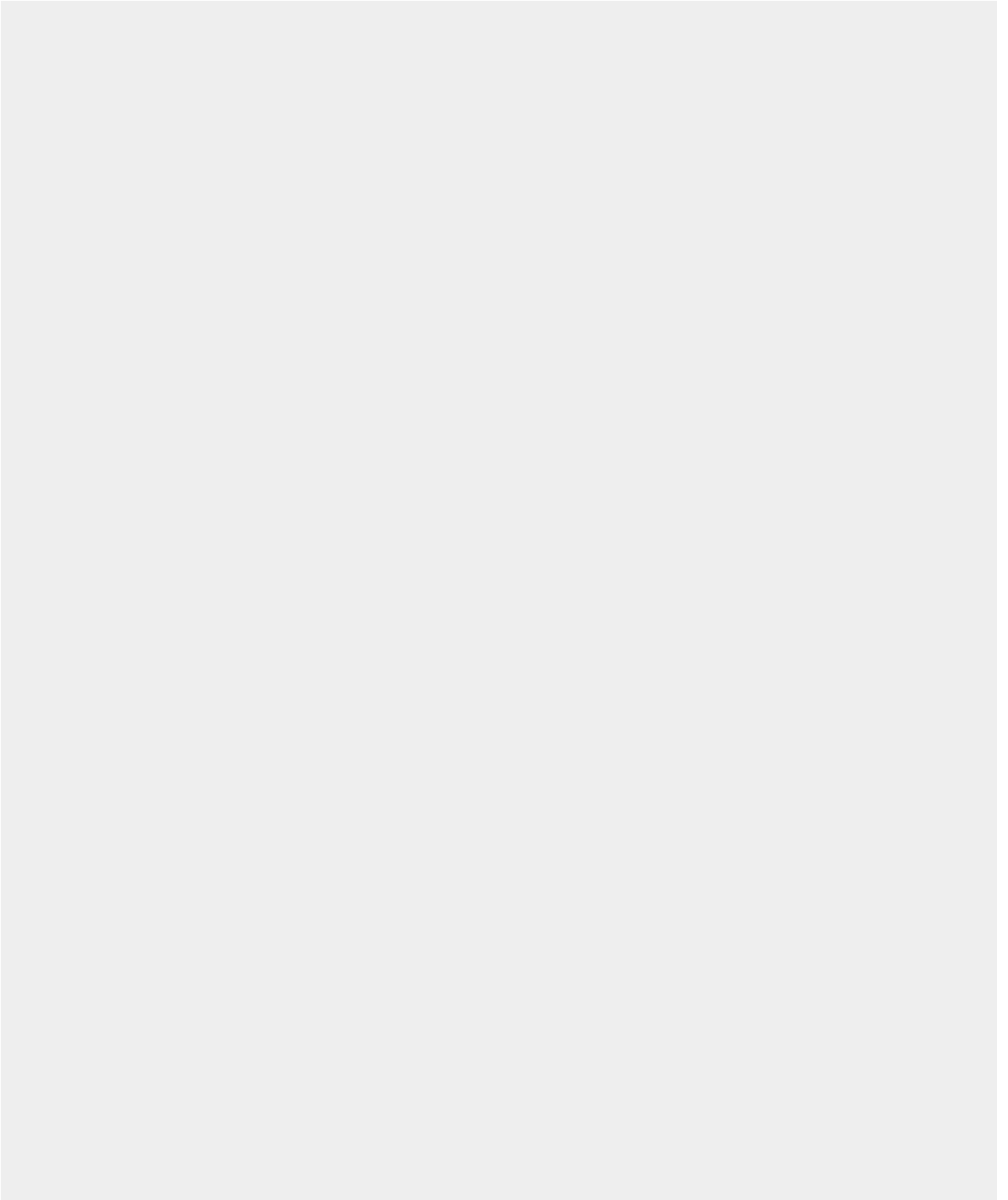
enter a sql statement which returns one column that contains a base64 encoded credential

ie: select 'sjdfhkjsdhfkjshdfks-' key from dual

The plugin doesn't encode in base64, therefore encoding must be done (cf below)

As a reminder, the string to be encoded is in the format of: <user>:<password> (don't forget the « : »)

sample of query statement:





```
select replace(utl_raw.cast_to_varchar2
  (utl_encode.base64_encode(
    utl_raw.cast_to_raw('USERNAME:PWD')
  )
),chr(13)||chr(10),'')
```



from dual



## Limitations:

- works only for folders. File is not implemented yet
- Doesn't work with apex.oracle.com

Ce plugin permet de visualiser le contenu d'un folder dans une application Apex.  
Le principe de fonctionnement s'appuie sur le mécanisme *applink*, et il est très bien adapté à un contexte applicatif.

Téléchargement: cf [apex.world](https://apex.world)