

2022-02-11 / MANAGEMENT

Connect OpenText Content Server with OTDS



Hi there AppWorks fans,

Welcome to a new installment of AppWorks tips.

After a week of painful try-out sessions, I finally nailed it and this is my shared update on the OTDS connection to OTCS. I guess it was just my inexperience, but now I really understand how it all works together. Why this painful push through? Well, because (eventually) I want to gain more knowledge about the AppWorks 'Business Workspaces' building block on an entity! To be able to work with it, we are...:

- ...firstly, required to have a connection with OpenText Content Server (which we created last week)
- ...secondly, necessary on building knowledge about the "black box" called xECM
- ...thirdly, mandatory to understand the seamless authentication from AppWorks to OTCS (through OTDS!)
- ...fourthly enforced to gain knowledge about the popular "Connected Workspaces" (which I have zero experience with)

So, it will be a hard path to follow, but we've defined the first steps...

Let get right into it...

Spin up you installed VM from last week, where we've installed OTCS next to our AppWorks platform, and the central OTDS instance.

I've got these URLs available:

- OTCS classic UI: <http://192.168.56.107:8282/livelink/cs?func=llworkspace>
- OTCS smart UI: <http://192.168.56.107:8282/livelink/cs/app/nodes/2000>
- AppWorks: http://192.168.56.107:8080/home/appworks_tips/
- OTDS: <http://192.168.56.107:8181/otds-admin/>

We already learned about the connection between **AppWorks** and **OTDS**, now we'll have a look at the connection between OTCS and OTDS. Let's start in the OTCS classic UI where we have the ability to manage users and groups. Why not start from OTDS? Well, because I have a gut feeling OTCS works slightly different with OTDS (compared with AppWorks) from what I've seen so far (like the license part!).

So, login with the 'admin' account and open the 'Users & Groups' section:

The screenshot shows the OpenText Content Suite Platform interface. The top navigation bar includes 'Enterprise', 'Personal', 'Tools', 'Admin', 'My Account', and a help icon. The 'Enterprise' dropdown is open, revealing options like 'Workspace', 'Users & Groups' (which is highlighted with a red arrow), 'Transport Warehouse', 'Communities', 'Support Asset Volume', 'Facets Volume', 'Perspectives Volume', 'Perspective Manager', 'Classifications', 'Physical Objects', and 'Records Management'. Below this, a message says 'There are no items to display.' At the bottom left is the 'Admin' status, and at the bottom right is the date '01/05/2022' and a link to 'Accessibility'.

Time to create a new user object:

The screenshot shows the 'Users and Groups' page in the OpenText Content Server interface. The top navigation bar is similar to the previous one. The main area displays a table with columns 'Type', 'Name', 'Last Name ↑', 'Department', and 'Actions'. One row is shown: 'Admin' with 'Last Name' as 'Admin' and 'Department' as '[Content Server Administration]'. To the right of the table is an 'Actions' column with 'Edit', 'Browse', and 'Groups' links. Above the table is a search bar with 'Find:' and a dropdown set to 'User Last Name' with a placeholder 'that starts with' and a search icon. To the right of the search bar is an 'Add Item' dropdown with 'User' (highlighted with a red arrow) and 'Group' options. At the bottom left is the 'Admin' status, and at the bottom right is the copyright notice 'OpenText Content Server version 21.2. Copyright © 1995 - 2021 Open Text. All Rights Reserved.'

You get a user creation screen where we just fill in the minimal information:

- Log-in name: `awadmin`
- Department: `DefaultGroup`
- Password: `admin`

When ready...hit 'Submit'!

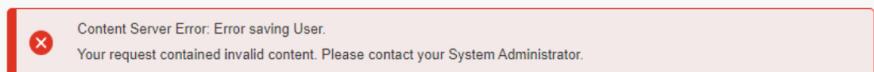
There you have it...Our first hurdle to take:

A red-bordered error message box contains the text: 'Content Server Error: Error saving User. Error updating the object in OTDS. {"status":-1,"error":"unauthorized","errorDetails":null}'

*After some short research I found out this action tries to create a user into OTDS under the partition named `Content Server Members` with the OTDS User ID account represented for the created resource `cs_resource` (check the "Users & Groups" section in OTDS on this)! I guess the partition name retrieval can be found behind this OTCS function:
<http://192.168.56.107:8282/livelink/cs?func=otdsintegration.migrate>
Have a look [here](#) too!*

The screenshot shows the 'User and group migration' configuration page. The 'OTDS Partition' section has a dropdown set to 'Content Server Members'. Below it is a note: 'Define the OTDS partition to be used by Content Server. Any users and groups created through Content Server, or migrated from the Content Server database will be saved to this partition.' There are two checkboxes: 'Migrate users and groups from the Content Server database' (unchecked) and 'Import OTDS data' (unchecked). The 'Import OTDS data' note states: 'Select this option to import data previously saved from an existing OTDS server. Use this option to preserve OTDS configuration and user data from a previously used internal or external OTDS server. This option should always be used when working with an existing Content Server 16 or newer database in order to retain OTDS configuration, partitions, and internal user passwords.'

A strange image when you look back at the same image from last week post! Here I see we've already updated the value to our partition name, but it's updated for some reason? When I update the partition back to my already created partition in OTDS `content_server`, we get a new error:



Looks like a valid message as I don't meet the password policy of the OTDS partition. As we're in DEV-mode, we just update in the password policy settings in OTDS (with all "zero" values):

The screenshot shows the 'Partitions' list in the OTDS Admin interface. The 'content_server' partition is selected. A red arrow points to the 'Actions' dropdown menu, which includes options like 'Password Policy', 'Partition Restrictions', 'Consolidate', 'Two Factor Auth Settings', 'Partition Attributes', 'Disable Partition', and 'Allocate to License'.

Final note: I tried adding the User ID account of the `cs_resource` in OTDS as member to the group `otdsadmins@otds.admin`. A valid solution as the partition `content Server Members` is created for me, but in this case I end up with a second partition which I would like to avoid!

After updating the above hurdle, we finally can create a new user object into OTCS which will also be available in OTDS (in the correct partition):

The screenshot shows the 'Users' list for the 'content_server' partition. It displays one user: 'awadmin' with the email 'awadmin@content_server'. The 'User Partition' is listed as 'content_server'.

Can we now also login with this account? Let's log out from our 'admin' account and login with 'awadmin' (where we are prompt with a password reset):

The screenshot shows the OpenText login page. It displays a message: "Your password requires changing. You can change it here." Below this, there are four input fields: 'User name' (awadmin), 'Old password' (redacted), 'New password' (redacted), and 'Confirm new password' (redacted). A green checkmark indicates "Passwords match". A blue 'Change' button is at the bottom. At the very bottom, the copyright notice "Copyright © 2022 Open Text. All Rights Reserved." is visible.

Do the reset (as this was a request from OTDS...Have a look into the OTDS account!), and now you should be able to login!

Hmmmmm...NOT!



Looks like I'm not the only one

Time to turn the tide in the next section...

Synchronize from OTDS to OTCS

From experience, we know the AppWorks users can be pushed from OTDS (through a non-synchronized partition) to Appworks. We've created this connection on the OTDS resource corresponding for the intended platform. I have one for AppWorks, and last week we've created also one for OTCS named `cs_resource`. What I can also remember from last week is the skipped part about the user and group synchronization (because of some missing services...remember?). Well, I found the holy grail, and we can make the synchronization happen, but first...**enabling some webservices!**

Open a MobaXTerm session to your VM and make sure you have an application server available! Well, by now we have 3 instances up and running:

```
1  {
2      "appservers": [
3          {
4              "name": "AppWorks",
5              "type": "TomEE",
6              "port": 8080,
7              "path": "/opt/tomee"
8          },
9          {
10             "name": "OTDS",
11             "type": "Tomcat",
12             "port": 8181,
13             "path": "/opt/tomcat"
14         },
15         {
16             "name": "OTCS",
17             "type": "Tomcat",
18             "port": 8282,
19             "path": "/opt/tomcat_cs"
20         }
21     ]
22 }
```

The services we are looking for are located (as .WAR file) in this location of our OTCS instance:

`/opt/opentext/cs/webservices/java/webapps/`. We can do a simple copy from this location into the `webapps` directory of our OTCS application server instance...Like this:

```
1 cp /opt/opentext/cs/webservices/java/webapps/cws.war /opt/tomcat_cs/latest/webapps/
2 cp /opt/opentext/cs/webservices/java/webapps/cs-services-rmsecmanagement.war /opt/tomc
```

Do we need to configure something for these services? Not from what I've experienced! We can just double-check on these URLs as they need to resolve a valid response for our next step:

- <http://192.168.56.107:8282/cws/services/MemberService?wsdl>
- <http://192.168.56.107:8282/cws/services/Authentication?wsdl>
- <http://192.168.56.107:8282/cs-services-rmsecmanagement/services/RMSecManagement?wsdl>
- <http://192.168.56.107:8282/livelink/cs/api?resource=test>

The last URL will give an error `Authentication Required`, but we will not call it like this...It's fine!

Our next step is to **update our OTDS resource `cs_resource`** with a user and group synchronization!



Resources		bfc384c0-be69-44d9-9bfb-f42ad69ee... AppWorks Resource	Actions
	<input checked="" type="checkbox"/>	cs_resource 071cb818-78bc-fe1d-b62c-9b9b2d87...	Properties Activation Status Notifications Impersonation Settings Deactivate Resource Disable Authentication

Go to the 'Synchronization' section, enable the synchronization option, and select the correct connector type:

The screenshot shows the 'Synchronization' tab selected. A red arrow points to the 'User and group synchronization' checkbox, which is checked. A red box highlights the 'Content Server' dropdown menu, which is set to 'Content Server'.

Move to the 'Connection information' section and fill in the fields like this (and do a connection test in the end!):

- Member Service WSDL: <http://192.168.56.107:8282/cws/services/MemberService?wsdl>
- Security Clearance WSDL: <http://192.168.56.107:8282/cs-services-rmsecmanagement/services/RMSecManagement?wsdl>
- Authentication Service WSDL: <http://192.168.56.107:8282/cws/services/Authentication?wsdl>
- REST API URL: <http://192.168.56.107:8282/livelink/cs/api>
- Username: `admin` (with small letters)
- Password: `admin` (for my account)
- Default group: `DefaultGroup` (should be valid OTCS group!)
- External users default group: `ExternalUsers` (should be valid OTCS group!)
- Default permission mask: `2063`
- Department: `DefaultGroup`

The screenshot shows the 'Connection Information' tab selected. A red arrow points to the 'Test Connection' button, which is green with a checkmark. A red box highlights the 'User name' field, which contains 'admin'. Other fields include 'Password' (redacted), 'Default group' (redacted), 'External users default group' (redacted), 'Default permission mask' (set to '2063'), and 'Domain mappings' (empty).

Why the value `2063` on the default permission mask? Well, I had a look in the database to see what's happening when you update the permissions on a user object in OTCS:

```

1 #SELECT NAME, firstname, lastname, userprivileges FROM kuaf WHERE NAME LIKE 'awadmin'
2 Log-in enabled = `15`
3 Public Access enabled = `2063` (incl. above)
4 Can create/modify users = `2095` (incl. above)
5 Can create/modify groups = `2159` (incl. above)
6 User administration rights = `2175` (incl. above)
7 eDiscovery rights = `10367` (incl. above)
8 System administration rights = `10623` (incl. above)

```

I wonder... Is this OTDS synchronization sufficient to make our OTCS created `awadmin` account able to have

a valid login now!? Let's try out...For me that's a green flag! ❤️ ✓

...

Time to create a new OTDS user in the `content_server` partition...Just a second user with name `awadmin2` to try it out!

Once created, we'll execute a "consolidate" on the created member (if not yet automatically done after save of the OTDS user).

The screenshot shows the OTDS Admin interface with the 'content_server' partition selected. A user named 'awadmin2' is highlighted in the list. A context menu is open over this user, with the 'Consolidate' option highlighted.

Monitor `sudo tail -999f /opt/tomcat/latest/logs/directory-provenance.log` on an entry like this:

```
1 Directory Server|Success Provenance|5,Object Create|192.168.56.1|"|"|
2 "entryDN=cn=awadmin2,ou=Root,ou=content_server,ou=IdentityProviders,dc=identity,dc=otcs,dc=com"
3 Push Connector|Success Provenance|15,Account Create In Resource|"|"|
4 "Created object of type __ACCOUNT__ named 'awadmin2' in resource cs_resource (071cb...
```

In OTCS? We see our new created user passing by with exactly our configured properties...NICEEEE!

Do we need any "Impersonation" settings on the resource!? I didn't do it, but I guess we require to do it on a later time during our xECM exploration...Keep it in mind!

That's it...Man, did we nail this one? Or what? "DONE"! We learned again a lot from OTDS in combination with OpenText Content Server which will greatly help us in our end-goal to make xECM up and running with the entity "Business Workspace" BB. Have a great week-end, and I CU in the next follow-up post which will be an xECM journey...cheers! 🎉

Another final interesting OpenText documentation resource can be found [here](#)

Don't forget to [subscribe](#) to get updates on the activities happening on this site. Have you noticed the [quiz](#) where you find out if you are also "The AppWorks guy"?

← Bring life in the documentstore connector for OpenText Content Server (21.2) with this ultimate guide →

NickName E-Mail Website(<http://>)

Comment here...

Submit

...

— AppWorks Tips —
Recent Posts



A new quarter, with a major update on
AppWorks 22.2

The power of BI to keep track on your
BPMs in production

Working with feature toggles / flags

Playing with BPM-activity ownership

Connecting Okta as IdP through OTDS

Calling a webservice with "nil"

Get the current "User" identity entity into
your BPM

Managing an unavailable (external)
webservice in a BPM

Categories

Development

Enterprise world

Installation

Management

Release

Tag Cloud

ANT API Abstraction

Administration Analytics

Anniversary ApacheDirectoryStudio

AppWorks Artifact

Artifacts Authentication **BPM**

Brava! BuildingBlocks

BusinessIdentifier

BusinessWorkspace CAF CARS

CBD CD/CI CIM CLI CMC

CMIS CSS CUSP

CaseInstanceMonitor CentOS

Charts Condition

ConnectedWorkspace Connector

Containerization Content

ContentServer Custom

CustomWebservice Customization

Database DatabaseMetadata

Debugging Deploy Deployment

Diacritics Digital Docker

Documentstore

DocumentstoreConnector

Documentum EISConnector

Email EnterpriseWorld Entity

Enumerated Explorer Feature

Flag ForLoop Form Gateway

Generalization Google Graphics

HTML5 Hierarchy Homepage

HowTo Identification Identity

Identity package IdentityPackage

InformationHub Inheritance

Installation Interceptor

JMeter JSON JUnit JXplorer

Java JavaScript Jenkins

Keywords LDAP Language pack

License Lifecycle LinkDocument

LinkedEntity LongTextProperty
Magellan Management Message
Metadata Method Mobile
Mockito Modeling Monitoring
OKTA OTDS OpenText
Oracle Organization PIM
Package Password Personal
PostgreSQL Postman
PowerMockito Preferences
Preparation ProgressionBar
Project Projects Properties
Property Publishing RHEL
ReST Recap RegularExpression
Relations Release Reporting
ResultList Role Roles Rules
SAML SDK SOAP SVN
Scheduler Search Selenium
ServiceContainer Setup
Short lived Singleton Software
Solutions SourceControl Sources
Spring State Storage Structure
SubProcess Subtyping Synch
Synchronization
SynchronizedPartition Sysadmin
Task TaskLayout Tasks Team
Tenant Test Testing Theme
Tips Toggle TomEE Tomcat
Tool Tools UDDI Uninstallation
Update Users VM Validating
Validation Value assistance
Versioning Video Viewer
VirtualBox WSAppServer
WebLibraryDefinition
Webservice WhileLoop
Worklist Workspace XML
XPath northwind xECM
xForm

MORE →