

# OpenScape Business V3

**Microsoft Exchange Online / Office 365** 

How To: configure OAuth 2.0

V1.0

AtoS

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# **History of Changes**

Date	Issue	Summary
02.12.2022	1.0	release version for OpenScape Business V3R2.1

Comments and corrections are welcome, please contact: <a href="mailto:osbiz-certification@atos.net">osbiz-certification@atos.net</a>

#### Disclaimer:

Microsoft Branding, Pictures and Icons in this document might be under copyright of Microsoft.

The Microsoft examples in this document give a rough overview of needed components in a basic setup and require individual verification for customers need.

Settings and configuration might change due to different Software versions.

#### Please note:

Microsoft is a 3<sup>rd</sup> party product. Unify offers data interworking capabilities for Microsoft with a technical description of how to configure the OpenScape Business.

UNIFY doesn't deliver any administration services for Microsoft.

# 1 E-Mail Forwarding

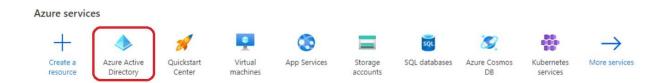
The instructions below will cover the necessary steps to configure E-Mail Forwarding using the OAuth 2.0 authentication method with Microsoft Office 365.

OpenScape Business uses postfix to connect to an exchange server (relay server) to send email notifications to required recipients. Till now this was done using the basic authentication scheme. Microsoft will obsolete the basic authentication method to all its **Exchange Online servers** in favor of the OAuth 2.0 authentication scheme.

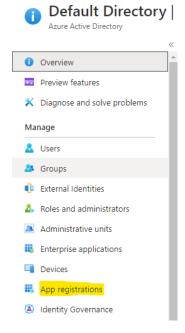
The configuration will be split in two parts. The  $1^{st}$  part covers the registration of the application in the Microsoft Azure Active Directory portal; the  $2^{nd}$  part will show how to create the E-mail forwarding in WBM using the information from the previous parts.

## 1.1 Register the Application in Microsoft Azure AD

Using Microsoft OAuth 2.0 authentication to send emails from OpenScape Business requires a Microsoft Azure Active Directory Application defined in the Azure Active Directory the user you are trying to send email as belongs to. Open the browser and go to the Azure Active Directory admin center and login with your Administrator account: <a href="https://aad.portal.azure.com/">https://aad.portal.azure.com/</a> go to Azure Active Directory:



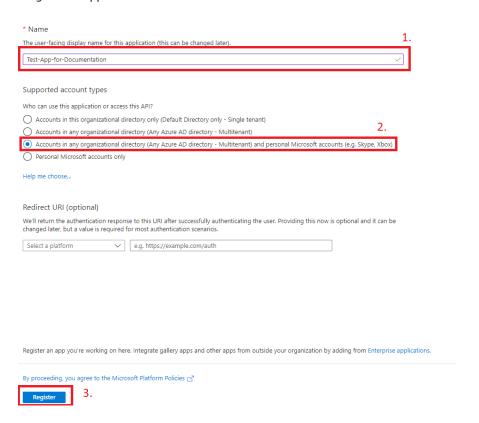
#### and select "App Registrations":



On the top, select "New Registration" and on the new application registration page

- Give it a Name
- On the "**Supported account types**" section, select whatever option suits your use case. This option restricts who can authenticate using this application. In the example below, the most permissive option is selected (depends on customer needs).
- Leave Redirect URI empty

#### Register an application ....

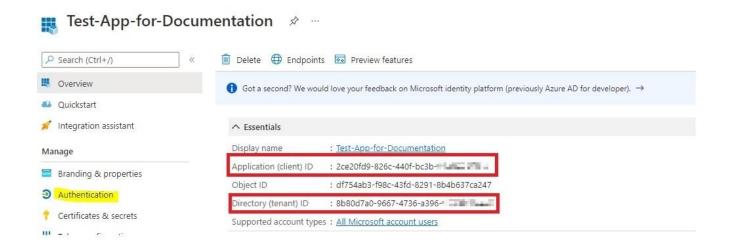




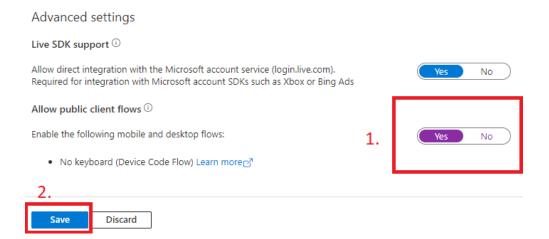
The same application can be used for all services if the respective API permissions are assigned and granted.

For documentation purpose we choose a separate application with the example name: Test-App-for-Documentation

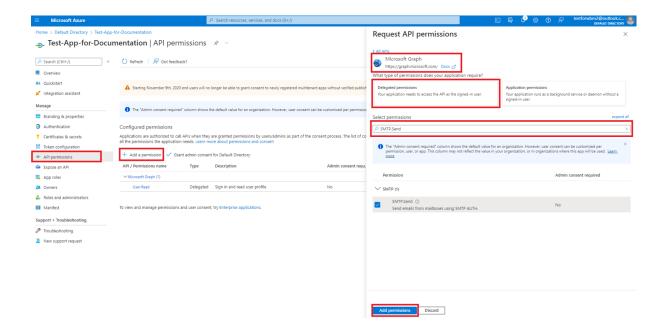
At the end of the process, Azure AD will present some information about the newly registered application. At this point, it's a good idea to take note of the "**Application ID**" (also known as client ID) and "**Directory (Tenant) ID**", as that information will be used to double-check the second parts of this configuration:



In the menu above on the left Sidebar under the Manage subsection, select "**Authentication**". In the Authentication menu, under "**Advanced Settings**" enable the **Device Code Flow**. Don't forget to save your changes.



In the sidebar, select "**API Permissions**". To add permissions for your app, select **Add a permission**  $\rightarrow$  Microsoft Graph API  $\rightarrow$  Delegated Permissions  $\rightarrow$  Search for the required permissions:



The required permissions for OpenScape Business E-mail forwarding are:

- SMTP.Send
- offline\_access
- openid

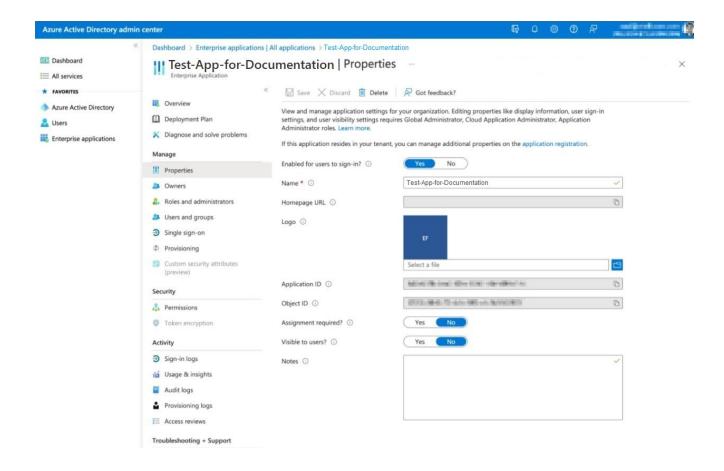
**Additional configuration**: If you are a subscriber of Office 365 Exchange Online and want to enable user sign-in for Exchange Online, please follow the next steps mentioned in <u>Microsoft's Documentation</u>:



In Azure AD, navigate to **Enterprise Applications**.

- Search for the previous created "**Test-App-for-Documentation**" application. Note, you may need to change the filter to **All Applications**. If it does not exist in that list, add it.
- Select "Test-App-for-Documentation" application and in the Properties for this app, ensure that the Enable for users to sign-in? setting is set to Yes.

You should now be able to use Microsoft OAuth 2.0 authentication for E-mail forwarding in OpenScape Business by using the **Application ID** and the **Tenant ID** (requires enabled user sign-in for Exchange Online in tenant settings).



After this 1<sup>st</sup> part, you should have the following application details available, which will be used to configure the remaining parts of these instructions:

Display name, which in our example is:

Test-App-for-Documentation

Tenant ID (also called Directory ID), which in our example is:

8b80d7a0-9667-4736-a396-xxxxxxxxx

Application (or client) ID, which in our example is:

2ce20fd9-826c-440f-bc3b-xxxxxxxxx



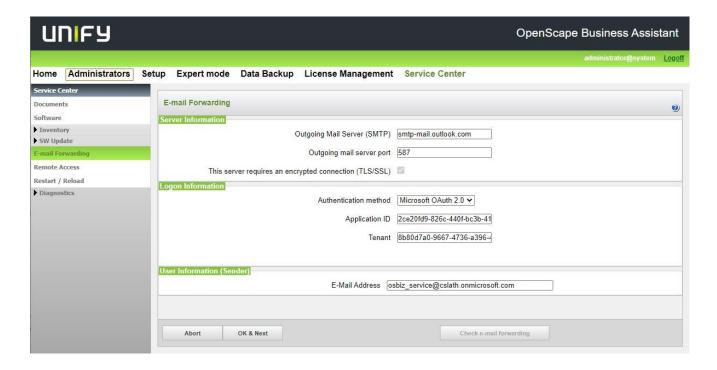
Please notice that this are all example values and should be replaced with the actual details from the newly registered application above.



Using a free Microsoft account, please use "common" in the **Tenant ID** field in OpenScape Business.

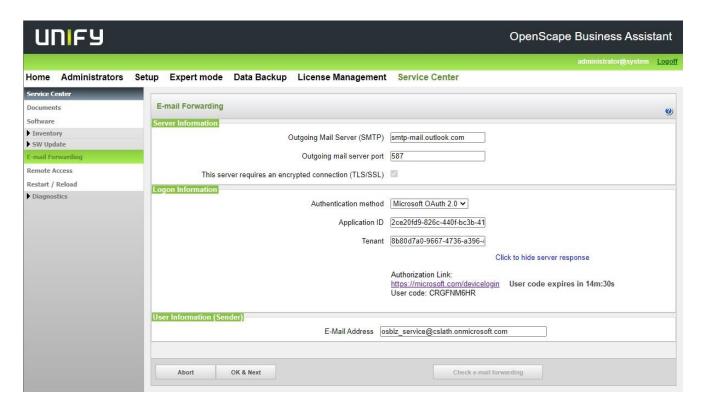
### 1.2 Create the E-mail Forwarding in WBM

The existing WBM page under **Service Center -> E-mail forwarding** is adapted to support the Microsoft OAuth 2.0 authentication. The "Microsoft OAuth 2.0" is the second drop down menu option. Instead of username and password the user must configure the **Application ID** and **Tenant** fields which will be used during the authentication process. Sign in with a valid email address for this application that is registered through the Azure configuration.

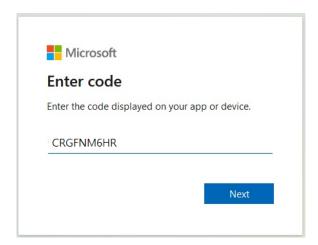


Click [OK & Next] to proceed with the authentication process.

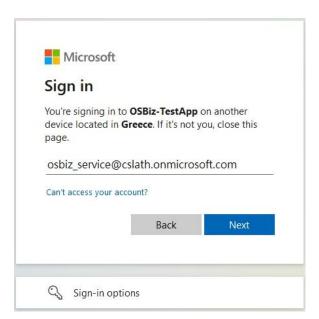
The OpenScape Business will send the configuration to the Azure server and waits until the Authorization Link is provided:



Use the Authorization Link (**click on the link**) to complete the authentication within Azure by using the provided User code (**copy & paste**).



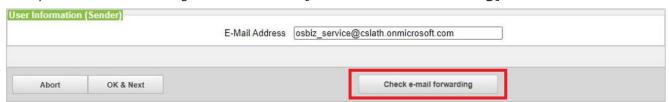
Sign in with the same email address for this application that is used within the E-mail Forwarding settings.



#### Successful sign in is confirmed:



#### Verify the successful configuration and click [Check e-mail forwarding]:



# **1.3 FAQ**

"SASL authentication failed"
"Authentication unsuccessful,
SmtpClientAuthentication is disabled
for the Tenant"

please check for following article
 https://answers.microsoft.com/en us/msoffice/forum/all/unable-to-send-email-via-3rd-part app-i-get-the/b29a7cd0-e696-4b0e-b66e-523be784a85a

# 2 Calendar Integration

The instructions below will cover the necessary steps to configure Calendar Integration using the OAuth 2.0 authentication method with Microsoft Office 365.

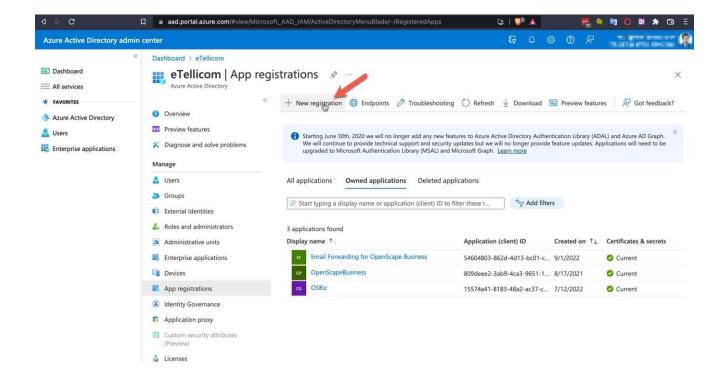
The configuration will be split in two parts. The  $1^{st}$  part covers the registration of the application in the Microsoft Azure Active Directory portal and the  $2^{nd}$  part will show how to create the configure Calendar Integration in UC Suite WBM using the information from the  $1^{st}$  part.

### 2.1 Register the Application in Microsoft Azure AD

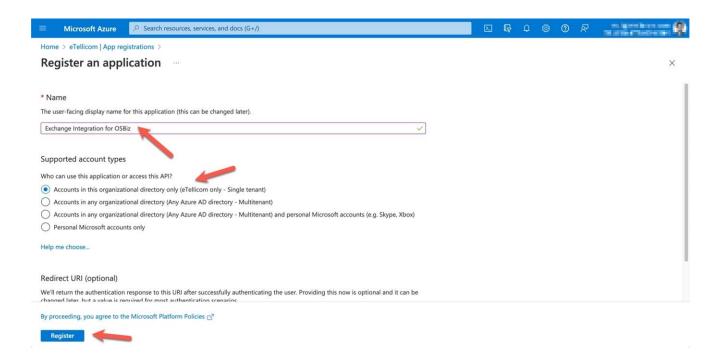
Open the browser and go to the Azure Active Directory admin center and login with your Administrator account: <a href="https://aad.portal.azure.com/">https://aad.portal.azure.com/</a>.

The instructions assume that an application with Administrator rights is being used; if that's not possible, you can register the application and request the Administrator to grant the required API permissions later, please check this article for more details: <a href="https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent#requesting-consent-for-an-entire-tenant">https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent#requesting-consent-for-an-entire-tenant</a>.

Select "Azure Active Directory" in the menu on the top=left corner, click on "App registrations", and then click "New registration":



Enter a meaningful name for the application (this will be later used to query the application when creating the Service Principal for Exchange Online), and for the "Supported account type", select the option which fits to customer installation (example: Single tenant). Then click the Register button to complete the registration:

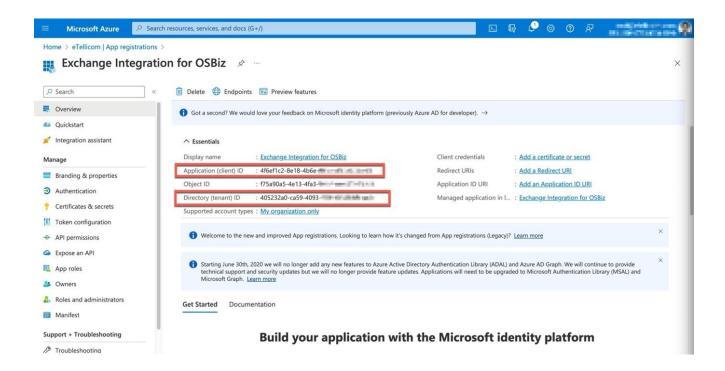




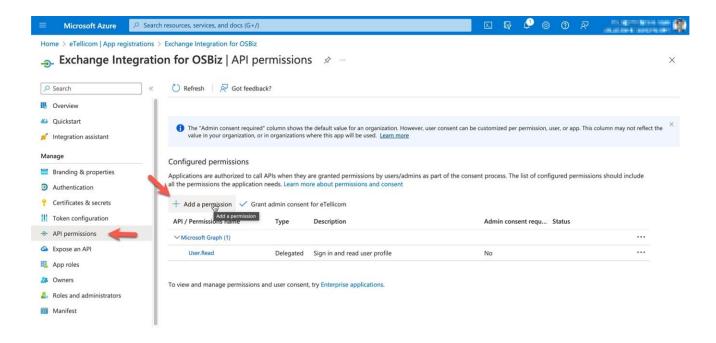
The same application can be used for all services if the respective API permissions are assigned and granted.

For documentation purpose we choose a separate application with the example name: Exchange Integration for OSBiz

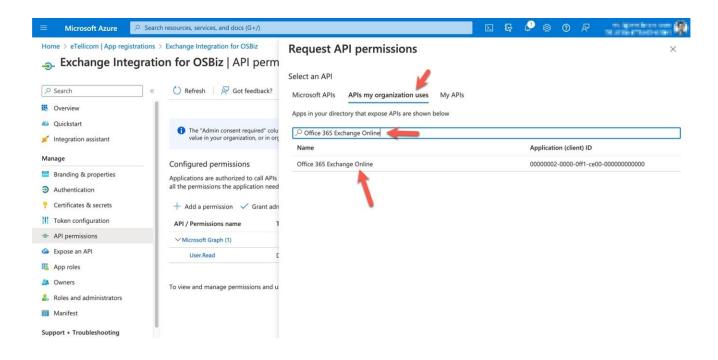
At the end of the process, Azure AD will present some information about the newly registered application. At this point, it's a good idea to take note of the "**Application ID**" (also known as client ID) and "**Directory (Tenant) ID**", as that information will be used to double-check the second part of this configuration:



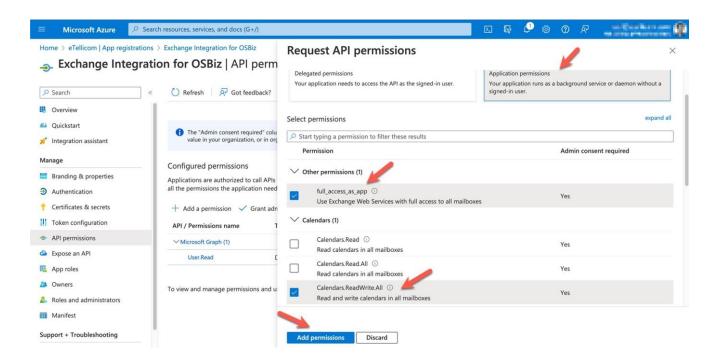
Now we need to assign the required permissions for the application. Click "**API permissions**" on the left, then click the "**Add a permission**" option to start adding the required API permission:



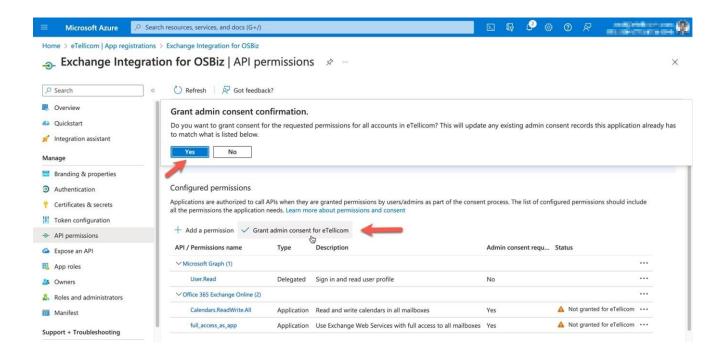
Select the "APIs my organization uses" and type "Office 365 Exchange Online" (without the double quotes) entry, then click the row to select it:



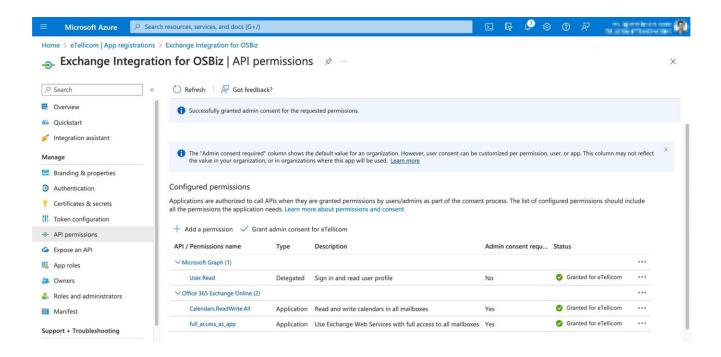
Select the "full\_access\_as\_app" and "Calendars.ReadWriteAll" permissions, then click the "Add permissions" button:



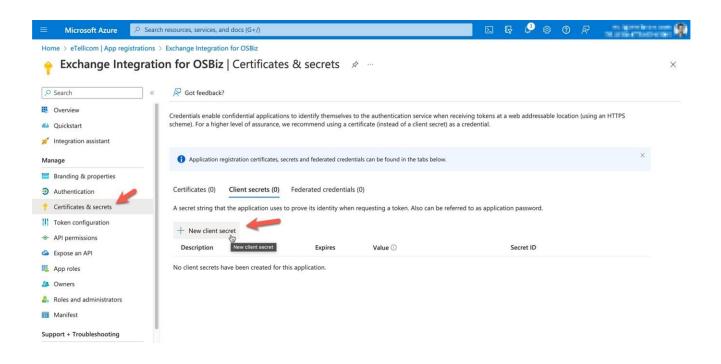
We now need to grant the admin consent permission for our tenant to use the API we selected above, that's done by clicking the "**Grant admin consent for <Tenant>**", then clicking **Yes** in the dialog box that will appear:



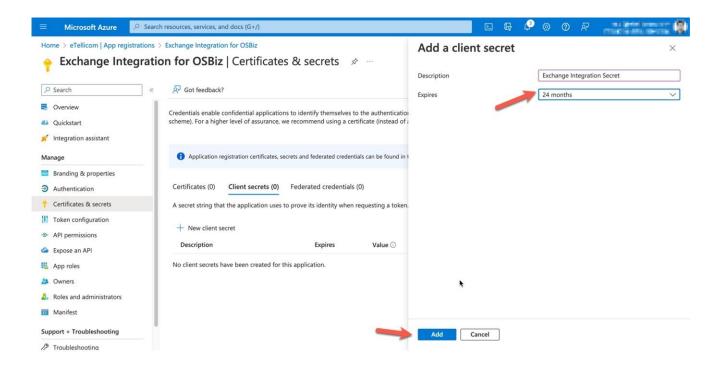
Once it's completed, the Status column should display that the API is correctly granted for the tenant:



Now we need to create a client secret for the application. Select the "Client & secrets" menu and then click "New client secret":



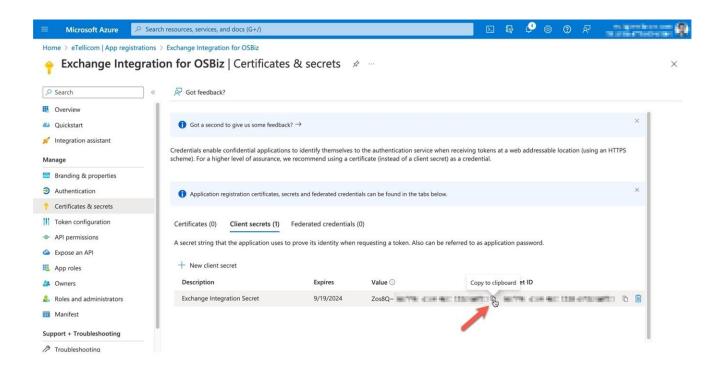
Enter a description for the client secret (it's just for informational purposes, as multiple secrets can be created for the same application) and select the expiration date option which fits to customer installation (example: maximum, 24 months), then click "Add":





The maximum runtime of the client secret is 24 months. To avoid reconfiguration, the secret value must be renewed before expiration.

**IMPORTANT**: at this point, you HAVE TO COPY the Value for the client secret by clicking the button next to it, as this the only time the Value will be ever visible and available for copying. If you don't do that at this point, that Client Secret Value cannot be used later when it's entered on WBM:



After this 1<sup>st</sup> part, you should have the following application details available, which will be used to configure the remaining parts of these instructions:

#### Display name, which in our example is:

Exchange Integration for OSBiz

#### Tenant ID (also called Directory ID), which in our example is:

405232a0-ca59-4093-959f-xxxxxxxxx

#### Application (or client) ID, which in our example is:

4f6ef1c2-8e18-4b6e-89bc-xxxxxxxxx

#### Client Secret Value, which in our example is:

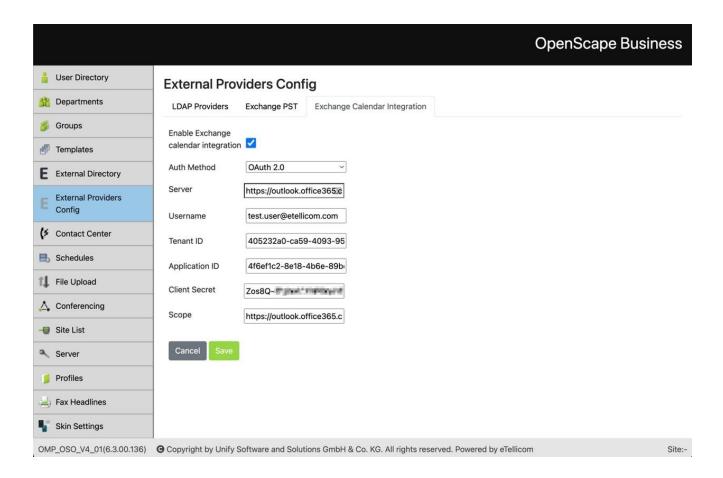
Zos8Q~...



Please notice that this are all example values and should be replaced with the actual details from the newly registered application above.

### 2.2 Exchange Calendar Integration in UC Suite WBM

Now that the application is registered with Azure, we can go to UC Suite WBM and open "External Providers Config", then select the "Exchange Calendar Integration" tab. Change the Auth Method to "Microsoft OAuth 2.0" and the following fields will appear. Use a valid email address for this application that is registered through the Azure configuration within the Username field:



Please enter the authentication details using the information that we collected from the first part of these instructions.

Server: https://outlook.office365.com/EWS/Exchange.asmx

Username: enter the email for your Microsoft Office 365 account

**Tenant ID, Application ID, Client Secret**: these are the same values that you took note from the last step in the 1<sup>st</sup> part of the configuration

Scope: https://outlook.office365.com/.default

Click [Save] and the configuration should now be completed.



#### Exchange Calendar integration (notes and hints):

- Understanding the function: When a user set appointments in his Microsoft Outlook calendar, the OpenScape Office Business system will automatically check for keywords in the calendar appointment subject like: "Meeting", "Sick", "Break", "Out of Office", "Holiday", "Lunch" or "Home". If such a keyword is found, the OpenScape Office Business will set the user's presence status automatically when the appointment time is reached, even if the Microsoft Outlook session of the specific user is not active anymore. The user simply configures his appointments with these keywords and OpenScape Office Business will automatically set his telephone presence status and as a result all calls will be routed to his voicemail or to his cell phone, depending on the configured forwarding destinations. The user can also configure in miscellaneous settings, whether his presence status should be switched back to "Office" presence status when the appointment time has ended. Appointments can also be set from Outlook Web Access (OWA) instead.
- A valid e-mail address for every user must be configured in all applications, as described in aforementioned steps respectively. o
   The UC Suite users Voicemail language settings is used by
   OpenScape Business to understand the keywords like: "Meeting",
   "Sick", "Break", "Out of Office", "Holiday", "Lunch" or "Home", so for example, German set Voicemail language can be used with the
   German keywords in the appointments subject like "Besprechung",
   "Krank", "Pause", "Außer Haus", "Urlaub", "Mittag" or "Zu Hause"
   only.
- In case "Auto back to office" option is not used, the user's presence status will be kept to the configured appointment status even if the appointment time elapses. As a result, the return time shown to other users will be increased every 15 minutes. If the "Auto back to office" option is used and the appointment time ends, the user's presence status is automatically set to "Office" again.
- Important note for testing: Appointments set into a future date and time with less than 3 minutes are ignored, because the system expects that the user creating an appointment can alter any option within 3 minutes. The OpenScape Business checks for appointments in the user's calendar every 30 seconds. For this reason and for any possible delays impaired by the network between the OpenScape Business and the Exchange Server, please configure test appointments starting at minimum after 3 and a half minutes or more.
- If you want to test the Exchange Calendar Integration functionality when user is not logged in either in myPortal for Outlook or in myPortal for Desktop, you can simply use the Outlook webmail. Usually, you can access outlook webmail by using this URL: "https://OWA". Login with the user's credentials and add the appointment with the appropriate keyword to the calendar. Check in another UC Suite user's client that the presence status changes when the appointment time has reached

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# 3 Exchange Directory Integration

The instructions below will cover the necessary steps to configure Directory Integration using the OAuth 2.0 authentication method with Microsoft Office 365.

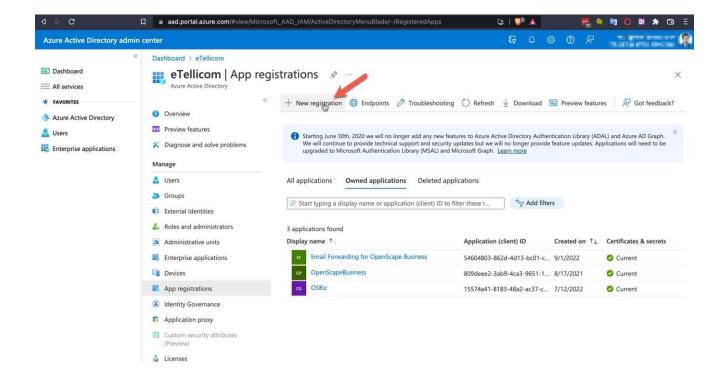
The configuration will be split in two parts. The  $1^{st}$  part covers the registration of the application in the Microsoft Azure Active Directory portal and the  $2^{nd}$  part will show how to configure Exchange Directory Integration in UC Suite WBM using the information from the first part.

### 3.1 Register the Application in Microsoft Azure AD

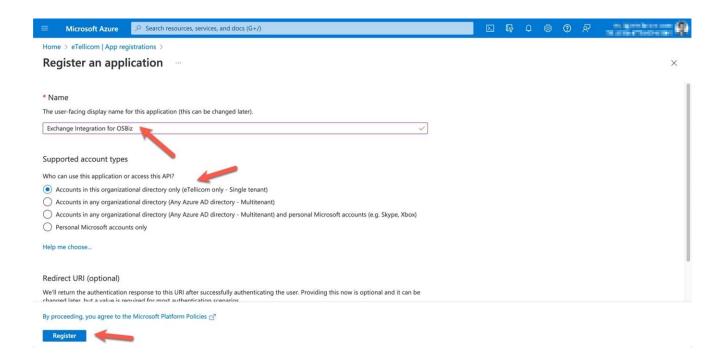
Open the browser and go to the Azure Active Directory admin center and login with your Administrator account: <a href="https://aad.portal.azure.com/">https://aad.portal.azure.com/</a>.

The instructions assume that an application with Administrator rights is being used; if that's not possible, you can register the application and request the Administrator to grant the required API permissions later, please check this article for more details: <a href="https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent#requesting-consent-for-an-entire-tenant">https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent#requesting-consent-for-an-entire-tenant</a>.

Select "Azure Active Directory" in the menu on the top=left corner, click on "App registrations", and then click "New registration":



Enter a meaningful name for the application (this will be later used to query the application when creating the Service Principal for Exchange Online), and for the "Supported account type", select the option which fits to customer installation (example: Single tenant). Then click the Register button to complete the registration:

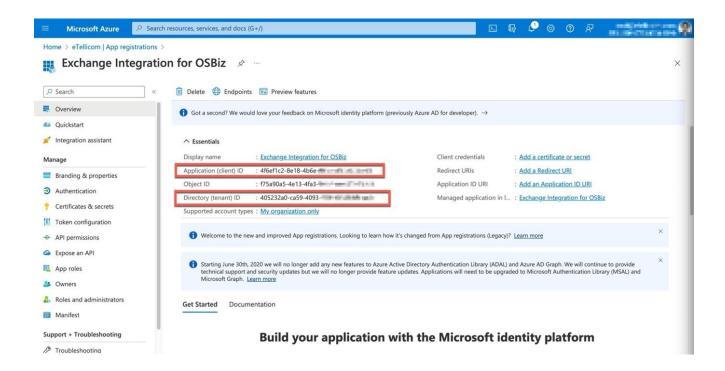




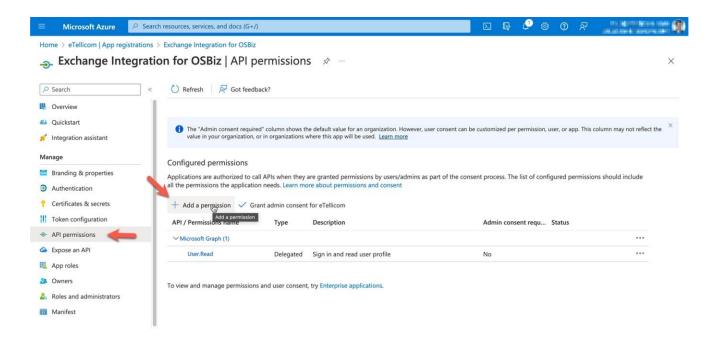
The same application can be used for all services if the respective API permissions are assigned and granted.

For documentation purpose we choose a separate application with the example name: Exchange Integration for OSBiz

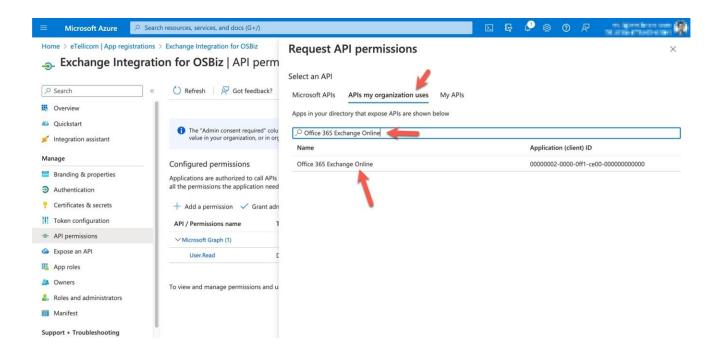
At the end of the process, Azure AD will present some information about the newly registered application. At this point, it's a good idea to take note of the "**Application ID**" (also known as client ID) and "**Directory (Tenant) ID**", as that information will be used to double-check the second and third parts of this configuration:



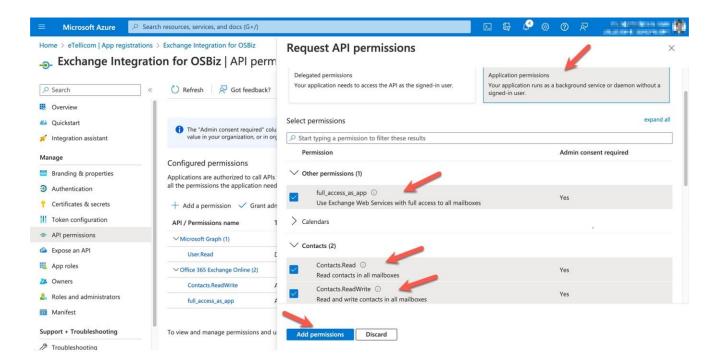
Now we need to assign the required permissions for the application. Click "**API permissions**" on the left, then click the "**Add a permission**" option to start adding the required API permission:



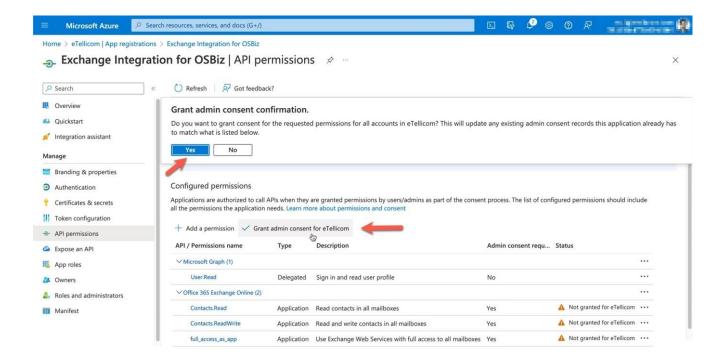
Select the "APIs my organization uses" and type "Office 365 Exchange Online" (without the double quotes) entry, then click the row to select it:



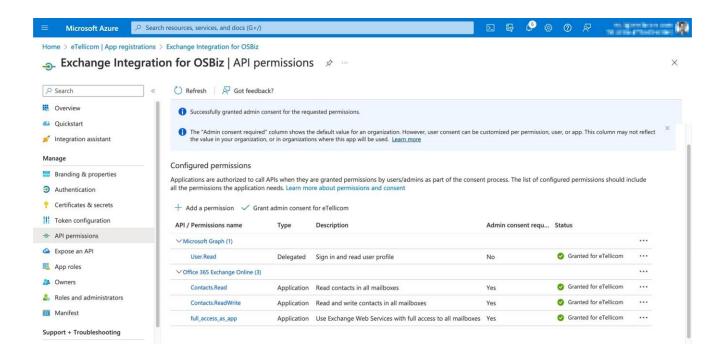
Select the "full\_access\_as\_app", "Contacts.Read" and "Contact.ReadWrite" permissions, then click the "Add permissions" button:



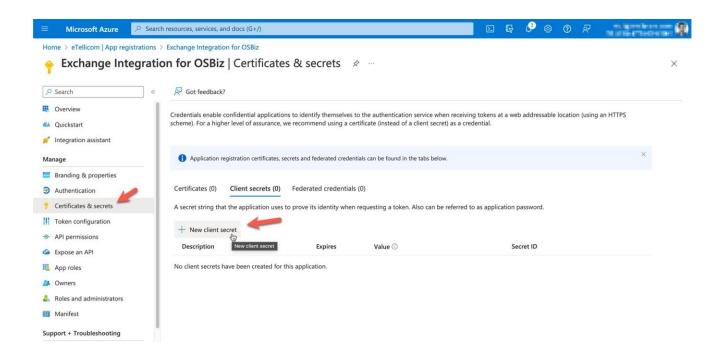
We now need to grant the admin consent permission for our tenant to use the API we selected above, that's done by clicking the "**Grant admin consent for <Tenant>**", then clicking **Yes** in the dialog box that will appear:



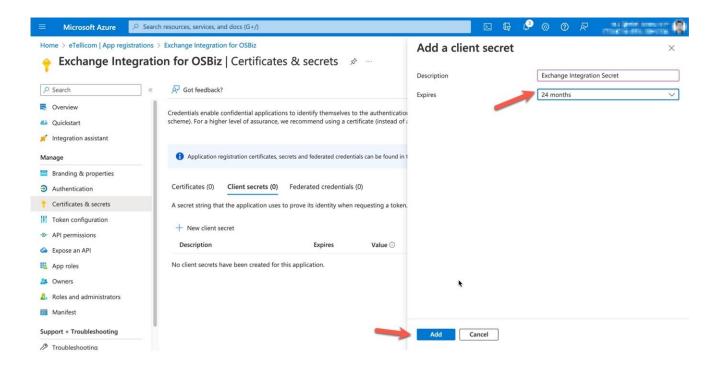
Once it's completed, the Status column should display that the API is correctly granted for the tenant:



Now we need to create a client secret for the application. Select the "Client & secrets" menu and then click "New client secret":



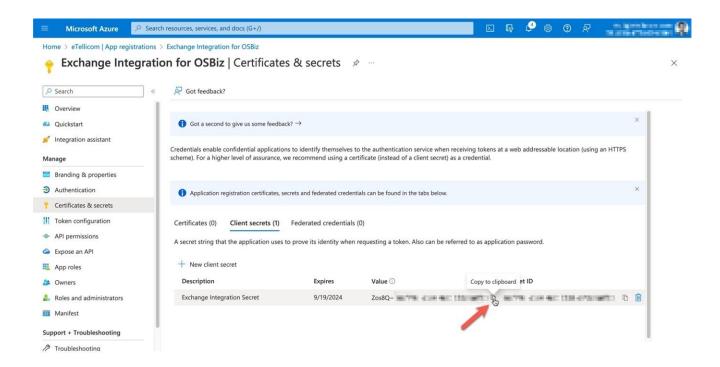
Enter a description for the client secret (it's just for informational purposes, as multiple secrets can be created for the same application) and select the expiration date option which fits to customer installation (example: maximum, 24 months), then click "Add":





The maximum runtime of the client secret is 24 months. To avoid reconfiguration, the secret value must be renewed before expiration.

**IMPORTANT**: at this point, you HAVE TO COPY the Value for the client secret by clicking the button next to it, as this the only time the Value will be ever visible and available for copying. If you don't do that at this point, that Client Secret Value cannot be used later when it's entered on WBM:



After this 1<sup>st</sup> part, you should have the following application details available, which will be used to configure the remaining parts of these instructions:

#### Display name, which in our example is:

Exchange Integration for OSBiz

#### Tenant ID (also called Directory ID), which in our example is:

405232a0-ca59-4093-959f-xxxxxxxxx

#### Application (or client) ID, which in our example is:

4f6ef1c2-8e18-4b6e-89bc-xxxxxxxxx

#### Client Secret Value, which in our example is:

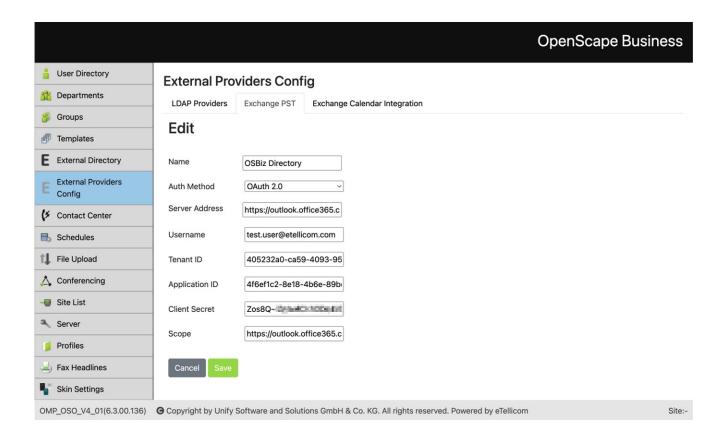
Zos8Q~...



Please notice that this are all example values and should be replaced with the actual details from the newly registered application above.

### 3.2 Exchange Directory Integration in UC Suite WBM

Now that the application is registered with Azure, we can go to UC Suite WBM and open "External Providers Config", then select the "Exchange PST" tab. Change the Auth Method to "Microsoft OAuth 2.0" and the following fields will appear. Use a valid email address for this application that is registered through the Azure configuration within the Username field:



Please enter the following values for Office 365 Exchange Online:

Server: https://outlook.office365.com/EWS/Exchange.asmx

Username: enter the user for your Microsoft Office 365 account

**Tenant ID, Application ID, Client Secret**: these are the same values that you took note from the last step in the 1st part of the configuration

Scope: https://outlook.office365.com/.default

Click [Save] and the configuration should now be completed.



Public folder contacts search (notes and hints):

- The public folder contacts search is restricted to the root level of the public folder structure only. Subfolders with contacts below the root level in the public folder structure are not queried.
- Hence private contacts are not retrieved unless the user has explicitly marked the contact as public.
- To test the public folder contact search functionality, use the search feature in myPortal for Desktop or myPortal for Outlook and search for a contact.

# 4 E-mail Queues with OAuth 2.0

The instructions below will cover the necessary steps to configure E-mail Queues using the OAuth 2.0 authentication method with Microsoft Office 365.

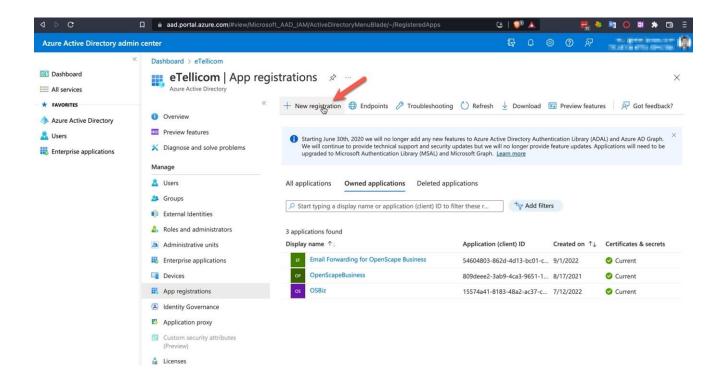
The configuration will be split in three parts. The  $1^{st}$  part covers the registration of the application in the Microsoft Azure Active Directory portal; the  $2^{nd}$  part covers the additional steps to be performed using the Windows PowerShell console tool to create and register a Service Principal for the application registered in the 1st part and finally assign the required permissions for the target mailbox to be used in the Contact Centre Queue; finally, the  $3^{rd}$  part will show how to create the E-mail Queue in WBM using the information from the previous parts.

### 4.1 Register the Application in Microsoft Azure AD

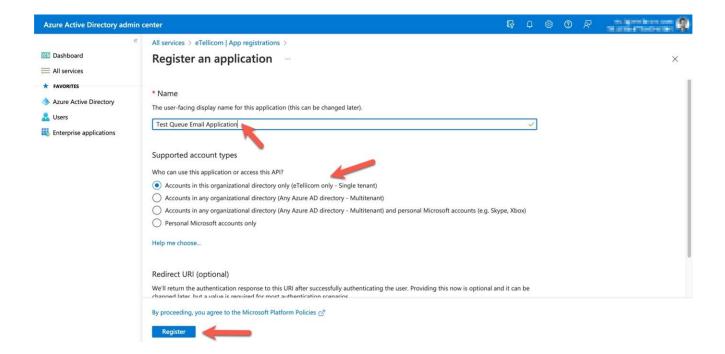
Open the browser and go to the Azure Active Directory admin center and login with your Administrator account: <a href="https://aad.portal.azure.com/">https://aad.portal.azure.com/</a>.

The instructions assume that an application with Administrator rights is being used; if that's not possible, you can register the application and request the Administrator to grant the required API permissions later, please check this article for more details: <a href="https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent#requesting-consent-for-an-entire-tenant">https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent#requesting-consent-for-an-entire-tenant</a>.

Select "Azure Active Directory" in the menu on the top=left corner, click on "App registrations", and then click "New registration":



Enter a meaningful name for the application (this will be later used to query the application when creating the Service Principal for Exchange Online), and for the "Supported account type", select the option which fits to customer installation (example: Single tenant). Then click the Register button to complete the registration:

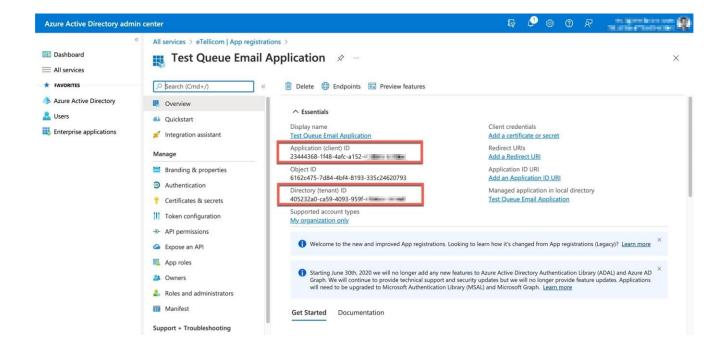




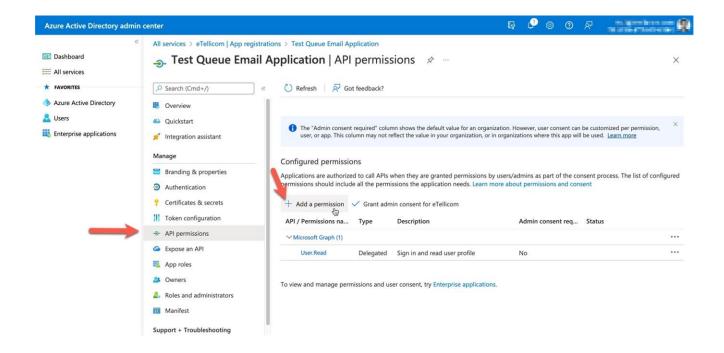
The same application can be used for all services, if the respective API permissions are assigned and granted, as well as the PowerShell commands (in the case of Email Queues only).

For documentation purpose we choose a separate application with the example name: Test Queue Email Application

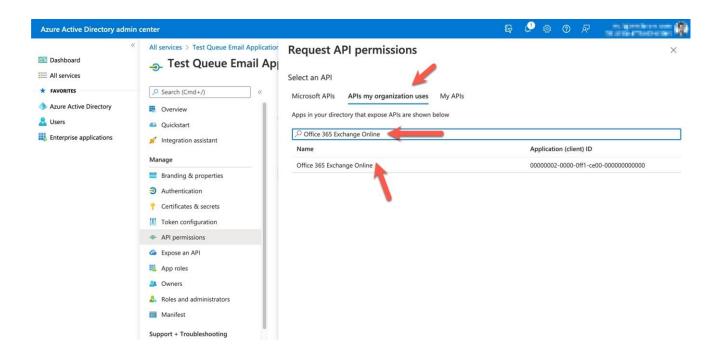
At the end of the process, Azure AD will present some information about the newly registered application. At this point, it's a good idea to take note of the "**Application ID**" (also known as client ID) and "**Directory (Tenant) ID**", as that information will be used to double-check the 2<sup>nd</sup> and 3<sup>rd</sup> part of this configuration:



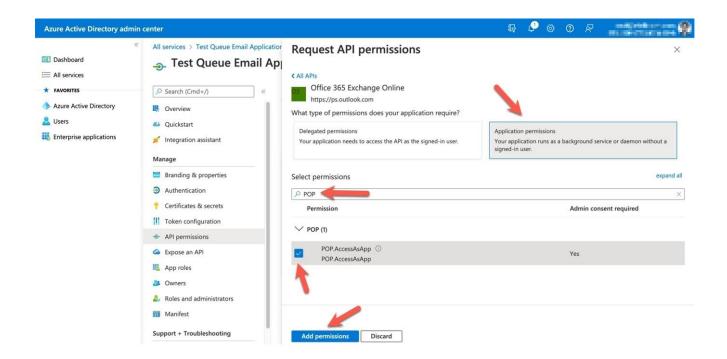
Now we need to assign the required permissions to be able to access the Email mailbox using the POP3 protocol for the Contact Centre. Click "**API permissions**" on the left, then click the "**Add a permission**" option to start adding the required API permission:



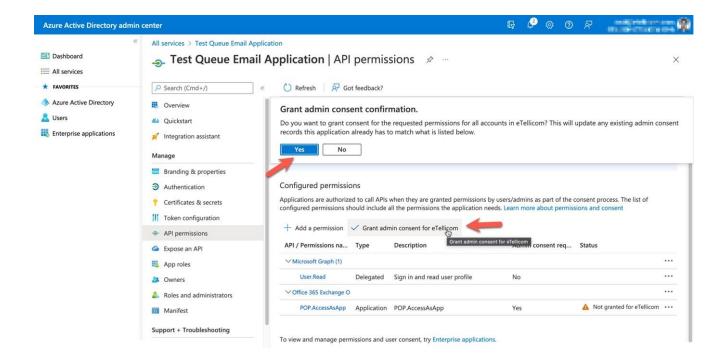
Select the "APIs my organization uses" and type "Office 365 Exchange Online" (without the double quotes) entry, then click the row to select it:



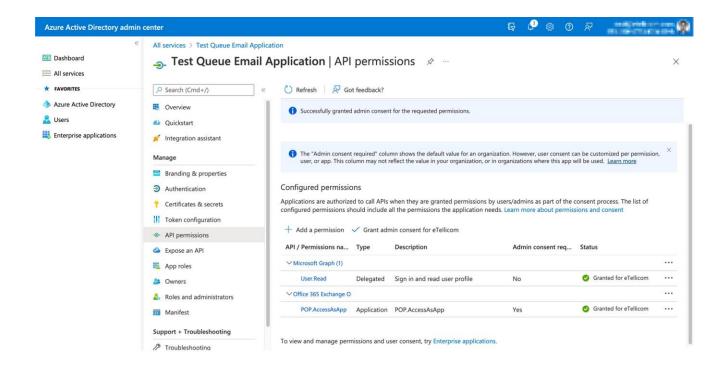
Select the "**Application permissions**" box, and then type "**POP**" (without the double-quotes) in the selection box, expand the POP menu option and select the checkbox for the "**POP.AccessAsApp**" permission, then click the "**Add permissions**" button:



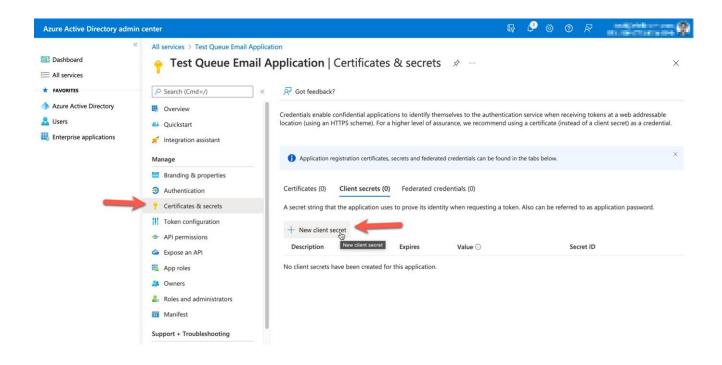
We now need to grant the admin consent permission for our tenant to use the API we selected above, that's done by clicking the "Grant admin consent for <Tenant>", then clicking Yes in the dialog box that will appear:



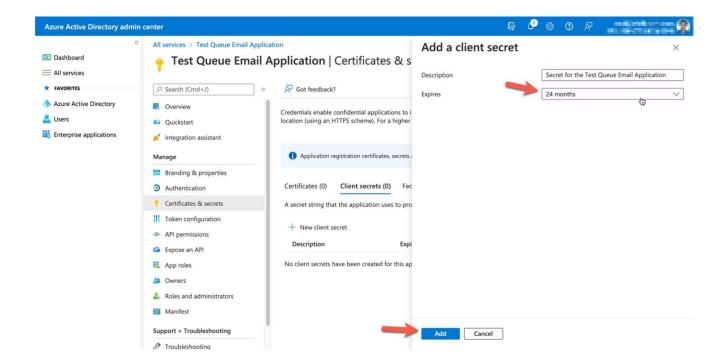
Once it's completed, the Status column should display that the API is correctly granted for the tenant:



Now we need to create a client secret for the application. Select the "Client & secrets" menu and then click "New client secret":



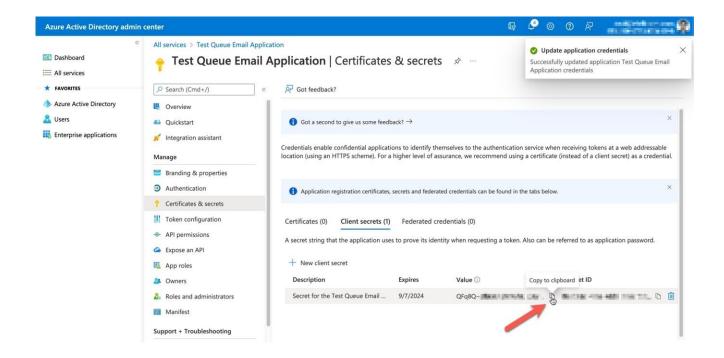
Enter a description for the client secret (it's just for informational purposes, as multiple secrets can be created for the same application) and select the expiration date option which fits to customer installation (example: maximum, 24 months), then click "Add":





The maximum runtime of the client secret is 24 months. To avoid reconfiguration, the secret value must be renewed before expiration.

**IMPORTANT**: at this point, you HAVE TO COPY the Value for the client secret by clicking the button next to it, as this the only time the Value will be ever visible and available for copying. If you don't do that at this point, that Client Secret Value cannot be used later when it's entered on WBM:



After this first part, you should have the following application details available, which will be used to configure the remaining parts of these instructions:

### Display name, which in our example is:

Test Queue Email Application

### Tenant ID (also called Directory ID), which in our example is:

405232a0-ca59-4093-959f-xxxxxxxxx

### Application (or client) ID, which in our example is:

23444368-1f48-4afc-a152-xxxxxxxxxx

### Client Secret Value, which in our example is:

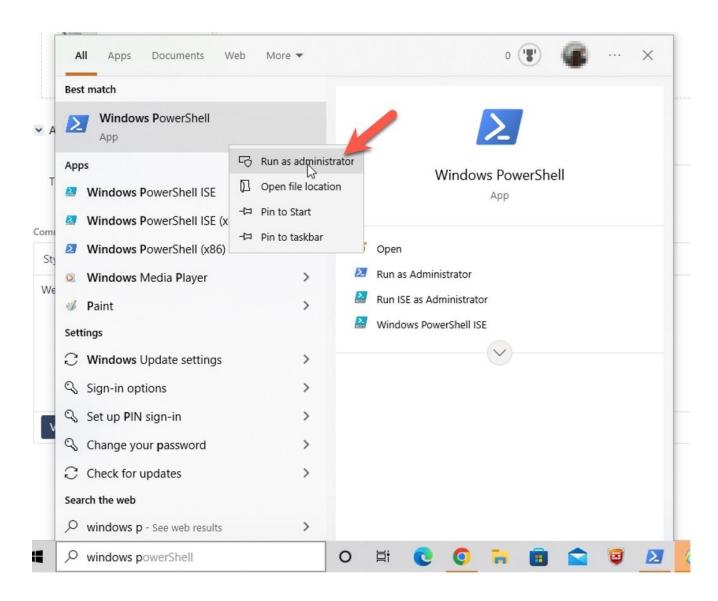
QFq8Q-...



Please notice that this are all example values and should be replaced with the actual details from the newly registered application above.

## 4.2 Service Principal and Mailbox permissions

Now we need to use the **Windows PowerShell** to connect to the Azure AD service and the Exchange Online account for our tenant. Before we can do that, it's necessary to install the required PowerShell modules for those tasks. As that requires Administrator rights on the Windows PC being used for this task, you will have to right-click it and select "**Run as Administrator**":



When the console is open, enter the following command to install the three required modules for PowerShell:

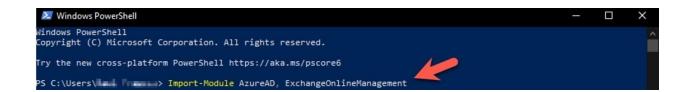
Install-Module -Name AzureAD, ExchangeOnlineManagement, Microsoft.Graph

Then press Enter. Press "A" (for All) when it asks for confirmation. Wait for it to complete the installation:

After that's completed, type exit and press enter to close PowerShell.

We now need to open PowerShell again, but without running it as Administrator, so simply select it from the Windows applications menu. When it's open, the first step is to import the modules we have installed in the previous step, we do that by typing the following command and pressing Enter:

Import-Module AzureAD, ExchangeOnlineManagement



The next step is to connect to the Azure AD service by using the following command, please replace the Tenant ID [405232...] with the unique identifier for your tenant that you have from the first part of the instructions:

```
Connect-AzureAD -TenantId 405232a0-ca59-4093-959f-xxxxxxxxxx
```

Once you press Enter, a browser dialog will appear where you will need to authenticate with your Microsoft account for Azure AD. After that, it will show some information about the tenant you just connected to and return to the PowerShell console:

```
PS C:\Users\\ PS
```

Now it's time to connect to the Exchange Online service by using the following command (again, replace the Tenant ID with your own):

```
Connect-ExchangeOnline -Organization 405232a0-ca59-4093-959f-xxxxxxxxxx
```

Once again, a new browser window will appear to authenticate with the Microsoft account, just complete the authentication and it will return to the console:

```
The module allows access to all existing remote PowerShell (V1) cmdlets in addition to the 9 new, faster, and more relia
ble cmdlets.
    Old Cmdlets
                                    New/Reliable/Faster Cmdlets
    Get-CASMailbox
                                    Get-EXOCASMailbox
    Get-Mailbox
                                    Get-EXOMailbox
    Get-MailboxFolderPermission
                                    Get-EXOMailboxFolderPermission
    Get-MailboxFolderStatistics
                                    Get-EXOMailboxFolderStatistics
    Get-MailboxPermission
                                    Get-EXOMailboxPermission
                                    Get-EXOMailboxStatistics
    Get-MailboxStatistics
    Get-MobileDeviceStatistics
                                    Get-EXOMobileDeviceStatistics
    Get-Recipient
                                    Get-EXORecipient
    Get-RecipientPermission
                                    Get-EXORecipientPermission
To get additional information, run: Get-Help Connect-ExchangeOnline or check https://aka.ms/exops-docs
Send your product improvement suggestions and feedback to exocmdletpreview@service.microsoft.com. For issues related to
the module, contact Microsoft support. Don't use the feedback alias for problems or support issues.
PS C:\Users\
```

To make things easier for the next steps, we will create a variable named MyApp to store the application details that we need, so we don't need to enter them manually. We do that by entering the following command in the PowerShell console and pressing enter:

```
$MyApp = Get-AzureADServicePrincipal -SearchString "Test Queue Email
Application"
```

Remember to replace "**Test Queue Email Application**" with the Application Name that you have given to the application in the first part of these instructions.

You can optionally check that it worked by returning the AppId value for the variable with this command:

```
$MyApp.AppId
```

The displayed value should be the same as the Application ID assigned to the application in the first part of these instructions.

Now will be able to create the Service Principal for our application, by running the following command:

```
New-ServicePrincipal -AppId $MyApp.AppId -ServiceId $MyApp.ObjectId - DisplayName "Service Principal for Test Queue Email Application"
```

Notice how we are using the properties of the MyApp variable instead of entering the Application ID or other values manually, that helps with the readability of the command and is also less error prone.

Please remember to replace the text for the <code>-DisplayName</code> with a better description for your application, but as this is for informational purposes only, just enter some meaningful text and press enter:

The final step is to give the proper permission to the Mailbox user that will be used with the Email account for the Call Centre queue. That's done with the following command, you will have to replace the -Identity value with the actual email account that you want to assign the permission to:

Add-MailboxPermission -Identity "user@domain.com" -User \$MyApp.ObjectId - AccessRights FullAccess

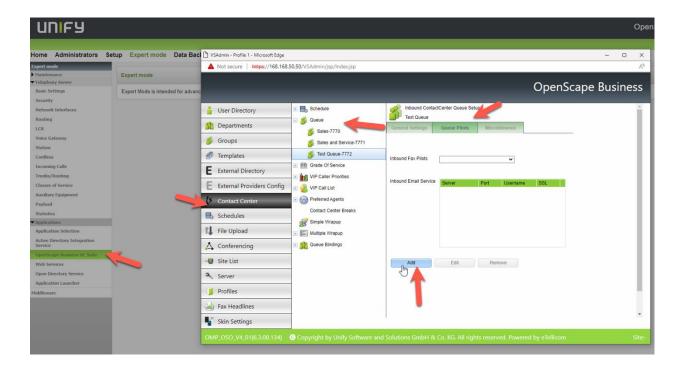
It's also important to notice that you can add multiple mailbox accounts to the same application, so if you have more accounts to be used with multiple queues, you can reuse the same application by simply adding the additional identities with the command above.

This is all that need to be done in PowerShell, so you can now close it and proceed with the 3<sup>rd</sup> part of the configuration.

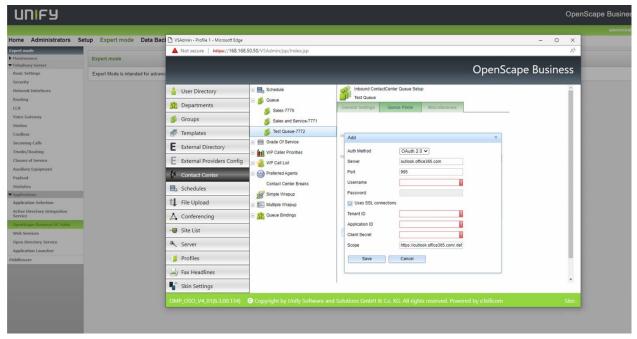
## 4.3 Create the E-mail for the Contact Centre Queue

Now that the application is registered with Azure AD and the Service Principal is created with the correct mailbox permissions for the Email account with Exchange Online, we can create the Email Queue pilot for the Contact Centre using the information that we collected from the 1<sup>st</sup> part of these instructions.

Go to WBM and open OpenScape Business UC Suite, select "**Contact Center**", expand the Queue menu, and select the respective Queue that you want to create the Email pilot for, then in the Queue Pilots tab, click "**Add**" to create a new Email pilot for the queue.



Change the Auth Method to "OAuth 2.0" and the following fields will appear:

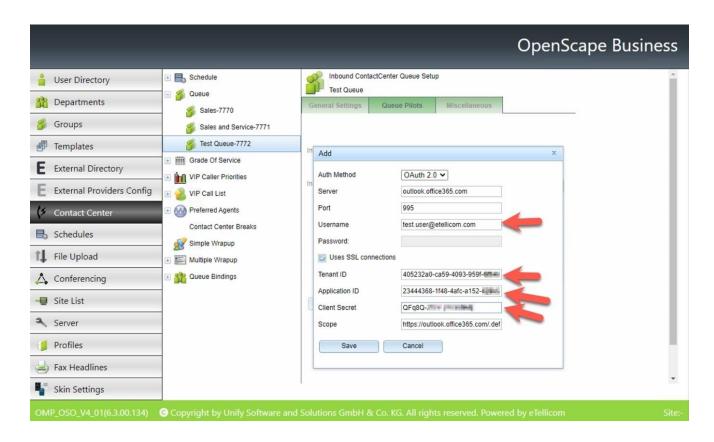


All the default values can be left as they are, but you will have to enter the following fields:

Username: this is the same as the mailbox identity that you used in the last step for the  $2^{nd}$  part of the configuration

**Tenant ID, Application ID, Client Secret** value: these are the same values that you took note from the last step in the 1<sup>st</sup> part of the configuration

Taking our example from this document, we would have the following entered:



Click [Save] and the configuration should now be completed.

# 5 myReports with OAuth 2.0



myReports uses the E-mail forwarding configuration, please refer to chapter  ${\bf 1}.$ 

# **6 Support & Serviceability**

## 6.1 Required trace files for error analysis

- OpenScape Business Diagnosis Logs including:
  - Event Log
  - Framework Protocol
  - UC Suite Protocols (if activated)

## **7 Best Practice**

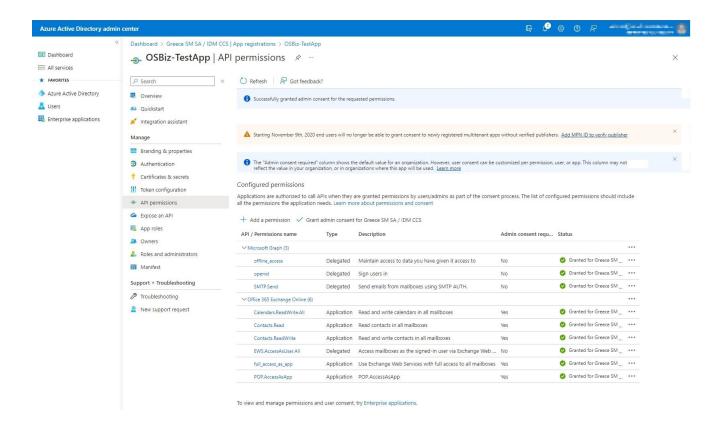
Information and useful hints from our lab and customer installations.

### 7.1 use the same application for all functions

The "OSBiz-TestApp" in this example is merging the API permissions of:

- E-mail forwarding
- Calendar Integration
- Directory Integration
- · E-mail Queues

For details of permissions please refer to the previous chapters and combine the permissions as needed. A partial usage is possible as well:



### 7.2 Testing POP3 access

Script for testing POP3 access using the OAuth 2.0 authentication with Microsoft Exchange Online.



#!/bin/sh

Please notice that below are example values and should be replaced with the details from the registered application.

# Script for testing POP3 access using the OAuth 2.0 authentication # with Microsoft Exchange Online # Replace the variables below with their appropriate values OAUTH TENANT ID=REPLACE WITH YOUR TENANT ID HERE OAUTH\_CLIENT\_ID=ADD YOUR APPLICATION ID HERE OAUTH CLIENT SECRET=PUT YOUR CLIENT SECRET VALUE HERE OAUTH EMAIL USER=your.user@yourcompany.com # Do NOT change these variables, they are put here just for better # readability of the commands OAUTH GRANT TYPE=client credentials OAUTH SCOPE=https://outlook.office365.com/.default echo "OAUTH CLIENT\_SECRET = \$OAUTH\_CLIENT\_SECRET" echo "OAUTH EMAIL USER = \$OAUTH EMAIL USER" echo "OAUTH SCOPE = \$OAUTH SCOPE" echo "OAUTH GRANT TYPE" = \$OAUTH GRANT TYPE" # Send the request to authenticate the client credentials and obtain # the Bearer token which will be used with the next API requests echo "Sending token request ..." AUTHORIZATION RESULT=\$ (curl --location --request POST "https://login.microsoftonline.com/\$OAUTH TENANT ID/oauth2/v2.0/token" \ --header 'Content-Type: application/x-www-form-urlencoded' \ --data-urlencode "grant type=\$OAUTH GRANT TYPE" \ --data-urlencode "client id=\$OAUTH CLIENT ID" \ --data-urlencode "client secret=\$OAUTH CLIENT SECRET" \ --data-urlencode "scope=\$OAUTH SCOPE" -s)

### 7.3 Further



Please send us important hints of your customer installation which are missed in the general description and worth to add here and share with the community.

Thank you !!!

Our Quality and Environmental Management Systems are implemented according to the requirements of the ISO9001 and ISO14001 standards and are certified by an external certification company.



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