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## Directory Search

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### Overview

The campusM Directory Search product integration allows users to search for individuals and view contact information, such as phone numbers and email addresses.

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### Vendors

The Directory Search product integration is currently supported by the Azure Active Directory vendor.

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### User Experience

The following section describes information relating to the user experience for the Directory Search product integration.

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#### User Activities

- Users can search the directory for an individual based on first or last name.
- Users can select an individual from the directory to view the available contact information.

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#### Offline Support

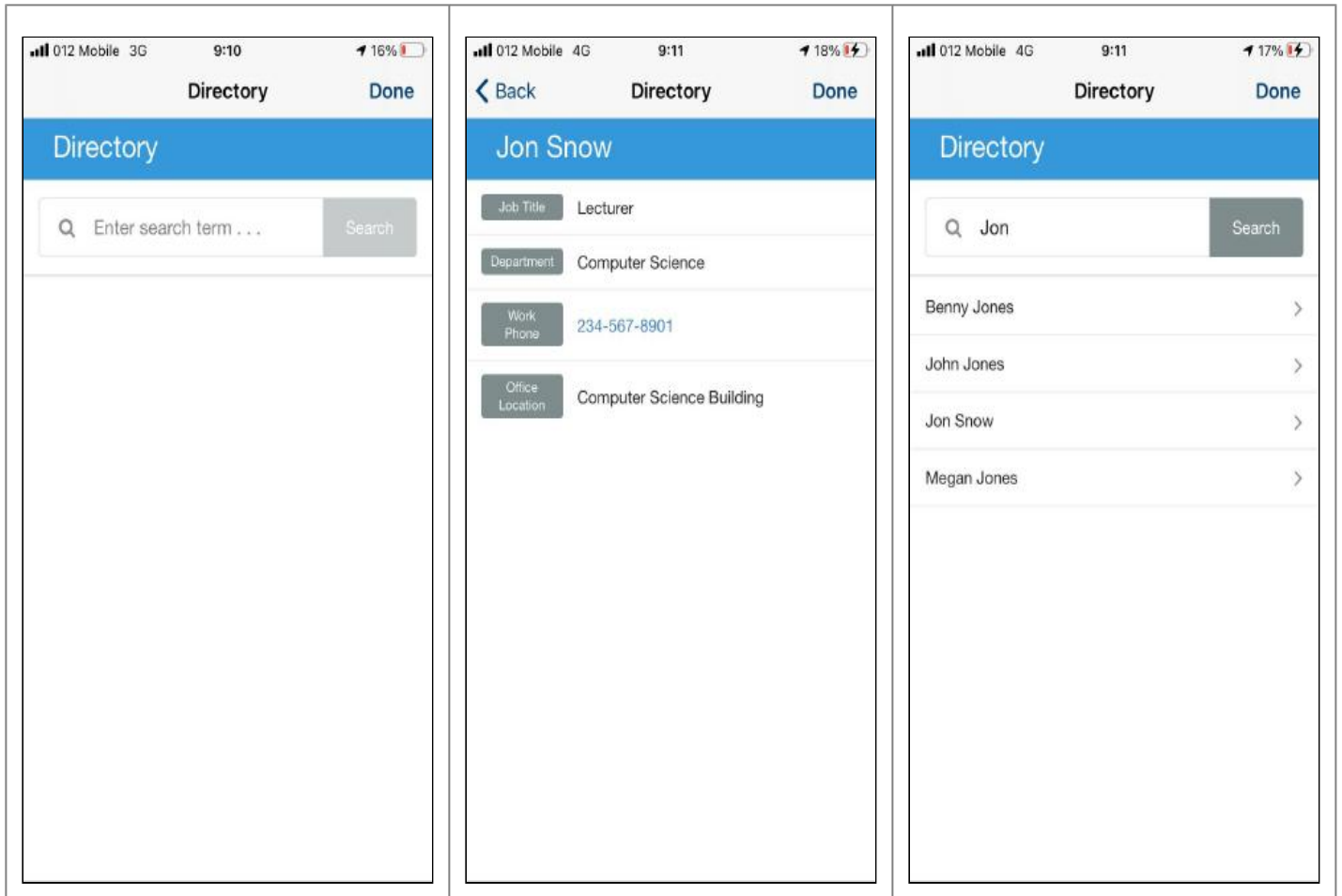
No offline support is provided. The user must be online to retrieve the directory data.

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#### Screenshots

The following is an overview of the Directory Search product integration user interface for reference when configuring it:

Directory Search	Directory Search Results	Directory Search Contact Information
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## Technical Overview

The following section describes technical information for the Directory Search product integration.

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## Supported Versions

The following version is supported: Microsoft Graph API v1.0.

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## Prerequisites

For the Directory Search product integration to work, you must:

- Register an app in the Microsoft Azure Portal (to receive the client and tenant IDs to be used at a later point)
- Grant the correct API permissions
- Create a client secret

This information is stored in campusM's App Manager in the Directory Search product integration configuration page.

For information concerning prerequisites, see the [Microsoft documentation](#) for the Microsoft Graph API for Azure Active Directory.

For more information about the recommended Permissions, see [Microsoft Graph API Permissions and campusM Product](#)

[Integrations](#), and the [Microsoft Graph documentation](#).

From the [Microsoft Azure Portal](#):

1. Click



and select **Azure Active Directory**.

2. Select **App registrations**.
3. Select **New registration**.
4. From the **Register an application** page:
  1. Choose a display name to represent the app, for example, "Directory PI Test."
  2. Set **Supported account types** to the relevant value, for example, "Account in this organizational directory only (example: only - Single tenant)."
  3. Leave the **Redirect URI** field blank.
  4. Select **Register**.
5. From the page that displays, record the following information to later enter on the Directory Search product integration configuration screen:
  - Application (client) ID
  - Directory (tenant) ID
  - Example

Display name DirectoryAPI	Supported account types My organization only
Application (client) ID [REDACTED]	Redirect URIs Add a Redirect URI
Directory (tenant) ID [REDACTED]	Application ID URI Add an Application ID URI
Object ID [REDACTED]	Managed application in local directory DirectoryAPI

6. From the left menu bar, select **API permissions** and:
  - Select **Add a permission**
  - Select **Microsoft Graph**
  - Select **Application permissions**
  - Enter "User.Read.All"
  - From the **User** dropdown list, select "User.Read.All"
  - Select **Add permissions**
7. Select **Grant admin consent for...**
  - When prompted, select **Yes**. A success message displays.
8. From the left menu bar, select **Certificates & secrets**.

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### Note

This value is not retrievable once you leave the page. Your client secret is required for the Directory Search product integration configuration screen.

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- From **Client secrets** select **New client Secret**.
  - Enter a meaningful description, for example, "Directory PI Test."
  - Set the expiration, for example, "Never."

- From the bottom of the page, **copy the client secret value**.
9. From the campusM App Manager **Directory** product integration page:
1. Enable the PI.
  2. Enter a name.
  3. Select the Azure vendor.
  4. Enter the **client ID**, **tenant**, and **client secret**.
  5. Select **Save and Continue Editing**.
  6. Select **Test API Connection**. A similar window to the following displays.

```

{
  "@odata.context": "https://fakeexample.com/stuff",
  "@odata.nextLink": "https://fakeexample.com/stuff2",
  "value": [
    {
      "displayName": "Benny Jones",
      "jobTitle": "Lecturer",
      "department": "Computer Science",
      "mail": "email.address@email.com",
      "mobilePhone": null,
      "businessPhones": [
        "234-567-8901"
      ],
      "officeLocation": "Computer Science Building",
      "accountEnabled": true
    },
    ...
  ]
}

```

## Configuration

To configure the Directory Search product integration, select **Product Integrations > Add Product Integration**.

Select **Directory Search**. The following table describes the configuration options available on this page. Note that while the majority of these fields are not mandatory, they are displayed with their default values unless otherwise stated.

Configuration Option	Description	Mandatory	Data Type	Default	Example
<b>Manage Integration</b>					
Enable Product Integration	Select to enable the product integration on the user's campusM app.	No	Checkbox	Unselected	
Product Integration Description	A description of the product integration for internal use	Yes	String		
Screen Title	Appears in the top header (of the integration, in the app).	No	String	Directory	

Configuration Option	Description	Mandatory	Data Type	Default	Example
<b>Vendor</b>					
Vendor Name	Defines which vendor the integration connects to.	Yes	Object	-	Azure Active Directory
Tenant	Sets the tenant ID for the integration, your Microsoft 365 tenant ID is a globally unique identifier (GUID) that is different than your organization name or domain	Yes	String	-	
Client ID	Sets the client ID for the integration	Yes	String	-	
Client Secret	Sets the client secret for the integration	Yes	String	-	
<b>Directory Page</b>					
Filter Contacts	Filters out contacts from displaying within the Directory	No	Boolean	<p>False</p> <hr/> <p><b>Note</b></p> <p>Only the following attributes are currently returned in the response, so only these can be used as filters. Additional filters can be added upon request.</p> <hr/> <ul style="list-style-type: none"> <li>• displayName</li> <li>• jobTitle</li> <li>• department</li> <li>• mail</li> <li>• mobilePhone</li> <li>• businessPhones</li> <li>• officeLocation</li> <li>• accountEnabled</li> <li>• showInAddressList</li> </ul>	
Filter Code	This defines the attribute that will be used to filter out users	No	String	accountEnabled	
Filter Value	This defines the value of the attribute that will be used to filter out users	No	String	false	
Display	Display up to two extra fields in	No	Boolean	False	

Configuration Option	Description	Mandatory	Data Type	Default	Example
Additional Data	addition to the contact's name				
Field 1	Pick an extra field to display	No	Object		Email
Field 2	Pick an extra field to display	No	Object		Department
<b>Contact Page</b>					
Display Contact Photo	Select this box to get a contact photo through Azure and display it in the Contact page.	No	Boolean	False	
Display Job Title	Select this box to display the contact's job title.	No	Boolean	True	
Display Department	Select this box to display the contact's department.	No	Boolean	True	
Display Email	Select this box to display the contact's email.	No	Boolean	True	
Display Mobile Phone	Select this box to display the contact's mobile phone.	No	Boolean	True	
Display Work Phones	Select this box to display the contact's work phone numbers.	No	Boolean	True	
Display Location	Select this box to display the contact's location.	No	Boolean	True	
<b>Look and Feel</b>					
Primary Theme Color	Used for the Screen Title header and other header elements.	No	Color Picker	#444444	
Secondary Theme Color	Used for the block headers.	No	Color Picker	#6f8ea4	
<b>Text / Labels</b>	Enter replacement text for the default titles and labels	No	String		

Configuration Option	Description	Mandatory	Data Type	Default	Example
Directory Page Header	This is shown at the top of the page	No	String	Directory	
Search Bar Text	Sets the placeholder text in the search bar	No	String	Enter search term . . .	
Search Button Text	Sets the text displayed in the search button	No	String	Search	
More Results Button Text	Sets the text displayed in the button that displays additional results	No	String	Show More Results	
No Results Message	Sets the texts that display when the search returns zero results	No	String	Your search did not match any records.	
Service Failure Message	Sets the message that appears when the integration is unable to reach or process the service call correctly	No	String	The page is having trouble fetching the directory - please try again shortly	
Job Title Label Text	Sets the label for the job title field on the contact details page	No	String	Job Title	
Department Label Text	Sets the label for the department field on the contact details page	No	String	Department	
Email Label Text	Sets the label for the email field on the contact details page	No	String	Email	
Mobile Phone Label Text	Sets the label for the mobile phone field on the contact details page	No	String	Mobile Phone	
Work Phone Label Text	Sets the label for the work phone field on the contact details page	No	String	Work Phone	
Office Location Label Text	Sets the label for the office location field on the contact details page	No	String	Office Location	
Display Labels If Empty	Shows all the contact detail labels, even if the field is empty	No	Boolean	No	
<b>Import/ Export Configuration</b>					
You can configure product integration and then export it to another campusM environment, for example, from sandbox to production or from preview to production.					
Export	Create a JSON file with all product integration configuration.	No			
Import	Use this option in order to load configuration from JSON of an exported product integration.	No			