

Gmail

Overview

The Gmail product integration displays a live tile with a count for unread emails and allows students to access their Gmail native app.

Vendors

Version: v1

User Experience

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

User Activities

Users can view how many unread emails they have from the live tile.

Authentication

The Gmail product integration uses an OAuth Integration Profile (configured at App Settings > Integration Profile > Add Integration Profile). This must be configured before the product integration will work. See OAuth Integration Profile Configuration.

The following is the authentication workflow:

1. The end user opens the Gmail tile.
 2. campusM requests a token from the Gmail token API.
 3. The user logs in to Gmail (if they have not already done so).
 4. If valid, Gmail sends a response with the user's access token.
 5. campusM sends the access token with every Gmail API request made.
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Offline Support

No offline support is available.

Screenshots

The following is an example of the Gmail live tile for a reference when configuring it.



Live Tile

The Gmail live tile should work for any tile size. The badge always appears in the upper-right corner of the tile.

Technical Overview

The following section describes technical information for the Gmail product integration.

Prerequisites

The following are the prerequisites for the Gmail product integration:

- Complete the prerequisites in Google to set up OAuth, as described at [OAuth 2.0 for Client-side Web Applications](#).

Note

- It is required by Google that in the Integration Profile settings in campusM "Open in External Browser" is set to "Yes".
 - The redirect URI should be formatted like the following: `{{your_campusM_app_hostname}}/cmauth/oauth/callback`, for example: `https://my-app.name.com/cmauth/oauth/callback`. This URL is not meant to be accessible. It is used by our cloud platform to complete the OAuth authentication flow.
 - The required scope is: `https://mail.google.com/`
 - It is advised that you register all of your campusM apps (typically Dev and Prod)
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- Configure an integration profile for Gmail for the product integration. For more information, see [OAuth Integration Profile Configuration](#).
 - Verify with Ex Libris that Gmail is included as an app added to the allow list (googlegmail). This is necessary for deep linking on mobile devices. Links, including deep links, need to be added as an action (URL) from within the App Builder.

Configuration

To configure the Gmail product integration, first configure an authentication integration profile (subtype OAuth) that you then select in the product integration configuration section.

OAuth Integration Profile Configuration

You add and edit integration profiles from [App Settings > Integration Profile > Add Integration Profile](#).

The following table describes the configuration options available on this page. All values are exactly as-is unless listed otherwise.

Configuration Option	Description
Name	Anything unique that describes the integration profile
Description	A description of the profile (this is not a required field)
Type	Authentication
Subtype	OAuth
OAuth Client ID	The client ID from Gmail
OAuth Client Secret	The client secret from Gmail
Authorization Endpoint	https://accounts.google.com/o/oauth2/auth
Access Token Endpoint	https://accounts.google.com/o/oauth2/token
Token Endpoint Auth	Post
User Info Endpoint	https://gmail.googleapis.com/gmail/v1/users/me/profile
OAuth Scope	https://mail.google.com/
Extract OAuth Tokens	Yes
Username Mapping	emailAddress
Mail Mapping	emailAddress
First Name Mapping	emailAddress
Last Name Mapping	emailAddress

Product Integration Configuration

To configure the Gmail product integration, select [Product Integrations > Add Product Integration](#) and select **Gmail**.

Configuration Option	Description	Mandatory	Data Type	Default	Example
Manage Integration					
Enable Product Integration	Select to enable the product integration on the user's campusM app.	Yes	Checkbox	Unselected	
Product Integration Description	A description of the product integration for internal use	Yes	String		Gmail
Live Tile					
Enabled	This enables the live tile	Yes	Checkbox	Selected	
Badge Color	This sets the background color for the badges on the live tile	No	Hex Code	#FFFFFF	
Update Rate	This sets the frequency of updates from Gmail to the live tile (in minutes)	No	Integer	30	
Import/ Export Configuration					
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			