



Microsoft Teams Integration



Overview

The purpose of this integration is to reduce administration burden and improve the accuracy of Teams room details between Microsoft Teams and Acorn LMS. The integration will automatically create a Teams session in coordination with face to screen training inside of the Learning Management System (LMS).

Scope

The scope of this integration is to create a Teams meeting within an elected Microsoft account's Teams account.



Assurances

The Acorn application is leveraging RESTful API to create POST requests to the client's Teams environment. Should Acorn experience any unprompted downtime, the Client's Teams application will be unaffected as the Teams infrastructure has no reliance on Acorn infrastructure.

Security

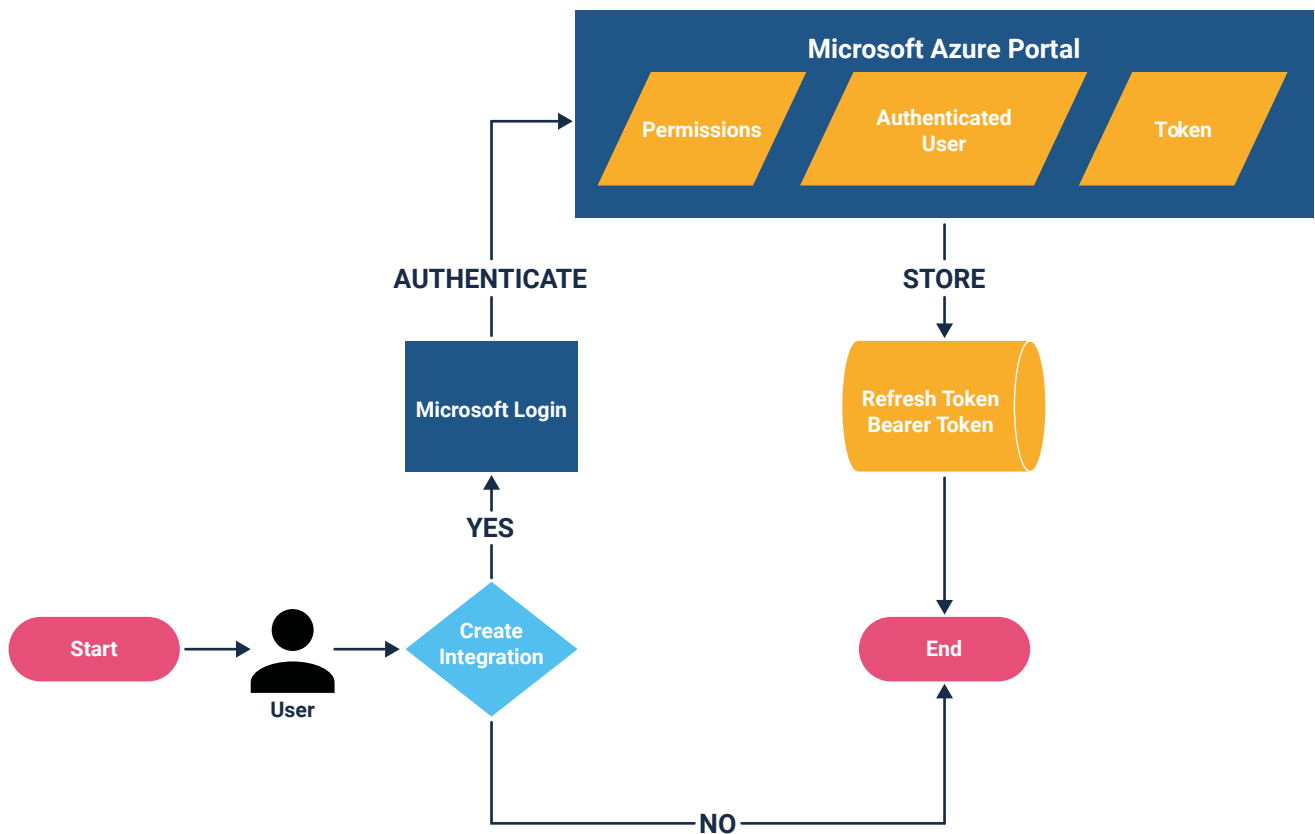
The integration will leverage TLSv1.2 which is soon due to be upgraded to TLSv1.3. All data is encrypted at rest and in-transit and all requests are forced through HTTPS. All protocols have a certificate encryption of RSA 2048-bit alongside a certificate renewal period of 12 months.

Rollback Strategy

To roll back the integration, an administrator will be required to remove sessions within the LMS that were created using the integration and finally delete the integration type from {base_URL}/live_learning_integrations. This will result in a total removal of any relationship between both systems. Users who try to access sessions created by the integration will be prompted with a forbidden access error. No intervention is required by Pursuit Technology or Acorn LMS.

Teams Integration

The Teams integration can only be created by an Acorn or Tenancy Administrator within the LMS. When creating the integration, the user will authenticate their account through a Microsoft authentication portal. The portal will request an initial token from the Azure application. The user will then be prompted to complete label options for the integration inside of the LMS. Once completed, the LMS will request a Bearer Token and Refresh Token from the application. This will be stored within the LMS's database and will be called upon during session creation.



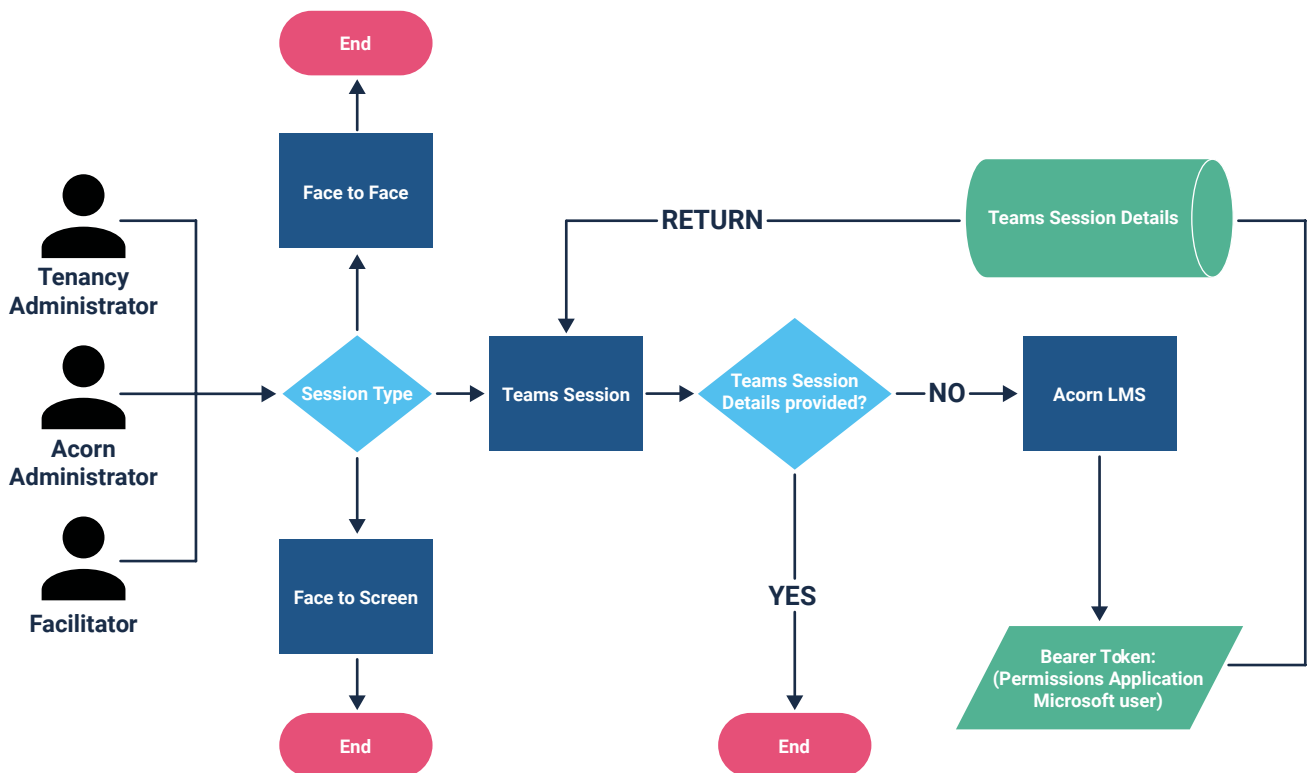
Session Creation

When a privileged user creates a session using a Microsoft Teams integration the LMS will send a POST request to the Azure application. The request will first initiate the refresh token to create a new and valid bearer token which will be passed through to the application with the following parameter:

- Permissions
- Application
- Microsoft User

In addition, it will also include a start time, finish time and subject which will be the events name within the LMS. Following the request, Teams will return the details for the Teams session as indicated in this documentation: <https://docs.microsoft.com/en-us/graph/api/resources/onlinemeeting?view=graph-rest-1.0#properties>

Once this is complete the session will be created in both Teams and the LMS.



Permission Configuration

You can find below the permissions that need to be altered for the integration to function. Also detailed is why the permission needs to be changed and links to Microsoft documentation on the permissions.

Offline_access

In the context of this integration, we ask for this permission so we can receive a refresh token for the user's account. The refresh token is then used to create and reschedule online meetings on their behalf.

Permission documentation from Microsoft Graph API: <https://docs.microsoft.com/en-us/graph/permissions-reference#delegated-permissions-39>

More information here about what this permissions is used for: https://docs.microsoft.com/en-us/azure/active-directory/develop/v2-permissions-and-consent#offline_access

OnlineMeetings.ReadWrite

This permission is used to create the session within Teams and return a link to the session.

Permission documentation from Microsoft Graph API: <https://docs.microsoft.com/en-us/graph/permissions-reference#online-meetings-permissions>

This permission/resource is separate to Calendar permissions which are documented here: <https://docs.microsoft.com/en-us/graph/api/resources/calendar?view=graph-rest-1.0>

OnlineMeetings.ReadWrite

This permission is used to sign in as the user to create the sessions.

Permission documentation from Microsoft Graph API: <https://docs.microsoft.com/en-us/graph/permissions-reference#delegated-permissiong=-%601%09qaZ%20s-69>



Thank you!

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