



# Translator for SharePoint

## Accelerator 365 by Reply

02 November 2023

## Table of Contents

<b>Executive summary</b> .....	<b>3</b>
<b>Installation of Translator for SharePoint</b> .....	<b>4</b>
Overview .....	4
Install from the SharePoint Store .....	4
Upgrade the app .....	9
Uninstallation instructions.....	11
<b>High-level design</b> .....	<b>12</b>
Overview .....	12
Architectural notes .....	13
Architectural diagram .....	14
Data flow.....	15
App telemetry .....	16
<b>Appendix</b> .....	<b>17</b>
Application Insights Data .....	18

## Executive summary

Whilst SharePoint Online offers a robust platform for enterprise-grade multilingual intranets, a key feature limitation is the automatic translation of content. Intranet editors are often challenged with the task of manually translating content in SharePoint Online to serve a multilingual audience, which requires significant time and effort to reach a published state.

The **Translator for SharePoint** solution relieves content editors of this manual task and allows you to automate the translation of your SharePoint site content in an instant. Helping you to deliver the translated information your users need at speed and at scale.

This document provides information on the installation instructions and high-level design of the Accelerator 365 Translator for SharePoint app.

# Installation of Translator for SharePoint

## Overview

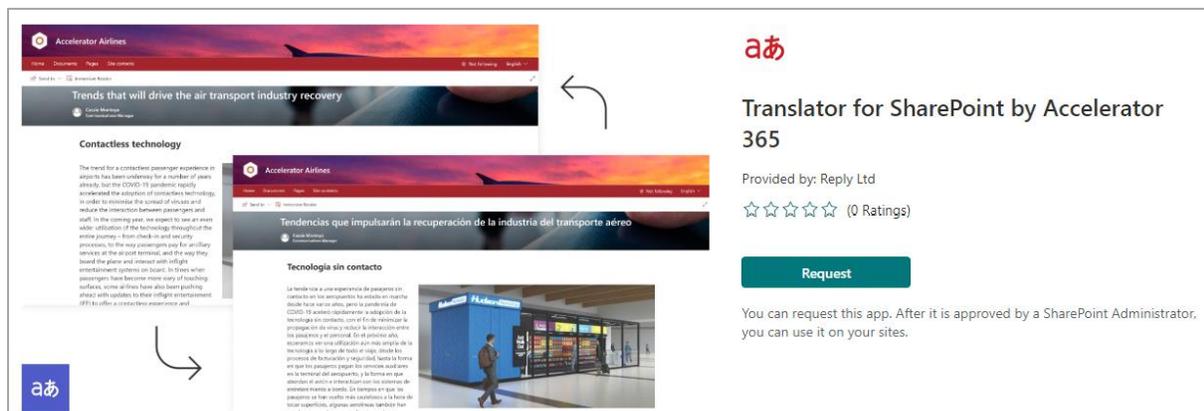
Accelerator apps and solutions, including Translator for SharePoint, have been developed in-line with Microsoft guidance and documentation. They have been specifically built for use in Microsoft SharePoint Online and have been submitted to the SharePoint Store, where they are individually reviewed by Microsoft before made publicly available.

All Accelerator apps and solutions in the SharePoint Store are available to install as a trial version, which can then be converted to the production version on provision of a license key from Reply.

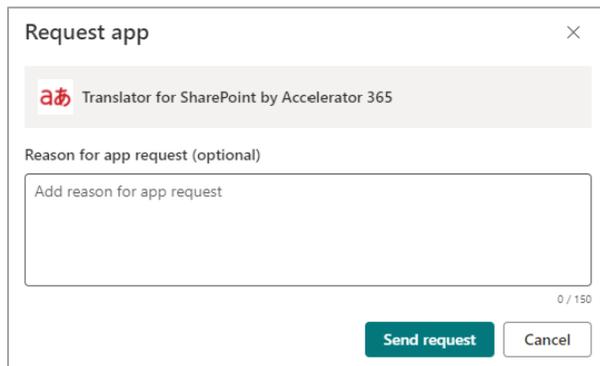
## Install from the SharePoint Store

1. On the site where you want to add an app, go to **Settings** ⚙️ and then select **Add an app**.
2. At the top of the page in the menu bar, select **SharePoint Store**.
3. Search for **Accelerator** to locate the necessary app.
4. Select **Translator for SharePoint**.
5. Select **Request**.

Note a user with SharePoint Administrator permissions on the tenant will instead see **Add to Apps site**. This would skip the below instructions required to approve an app.



6. Optionally, you can add a reason for your request. Then select **Send request**.

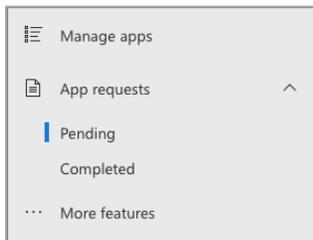


The screenshot shows a dialog box titled "Request app" with a close button (X) in the top right corner. Below the title bar, there is a header area with a red "a" icon and the text "Translator for SharePoint by Accelerator 365". Underneath, the text "Reason for app request (optional)" is displayed above a large text input field. The input field contains the placeholder text "Add reason for app request". At the bottom right of the input field, the character count "0 / 150" is visible. At the bottom of the dialog box, there are two buttons: a green "Send request" button and a white "Cancel" button.

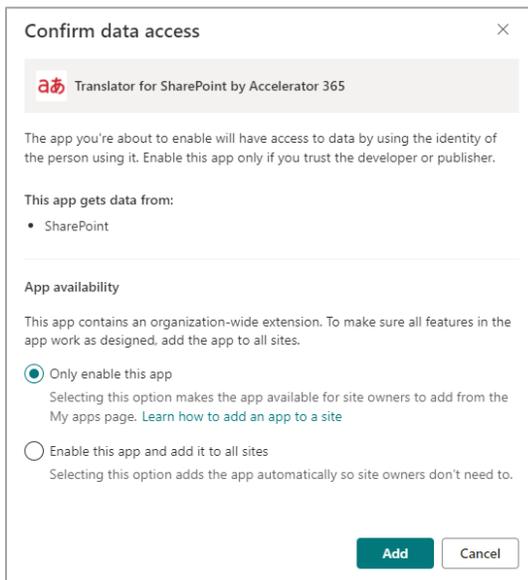
7. When the app is approved, it can be added to sites.

## Approve the app

1. Go to the **More features** page of SharePoint Admin Centre, and sign-in with an account that has admin permissions for your organization.
2. Under **Apps**, select **Open** to open the **Apps** site.
3. Expand **App requests**, and then select **Pending**.



4. In the **App Requests** lists, select the request corresponding to the Reply Accelerator app you wish to install.
5. On the app request form, add any comments in the **Comments** field. Select **Approve and add this app**.
6. Choose the app availability. We recommend the **Only enable this app** option for Translator for SharePoint.



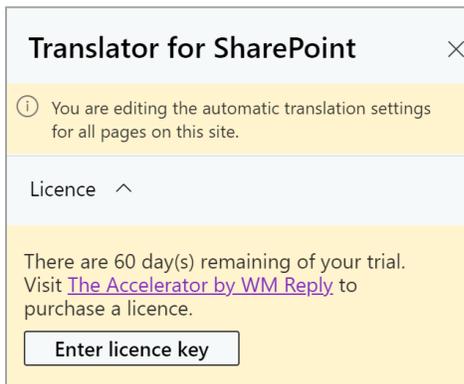
7. Select **Add** and close the panel.

## License an Accelerator app

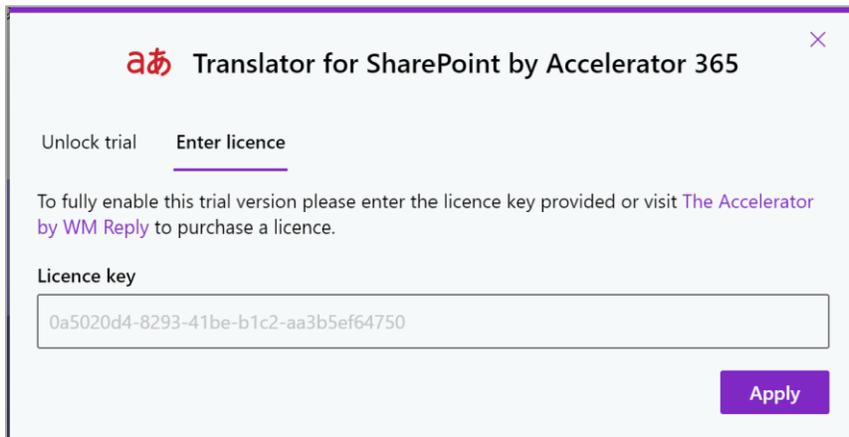
All Accelerator apps downloaded from the SharePoint Store will default to a full functionality 60-day free trial. A trial message will temporarily appear for all users indicating the number of days remaining of the trial before disappearing.

Reply will provide a license key for all apps that have been purchased, which will remove mention of trial for all users and purchased apps.

1. A user with the SharePoint Admin role on the tenant will see an **Enter licence key** button on the Translator for SharePoint app in the property pane. Click on this button



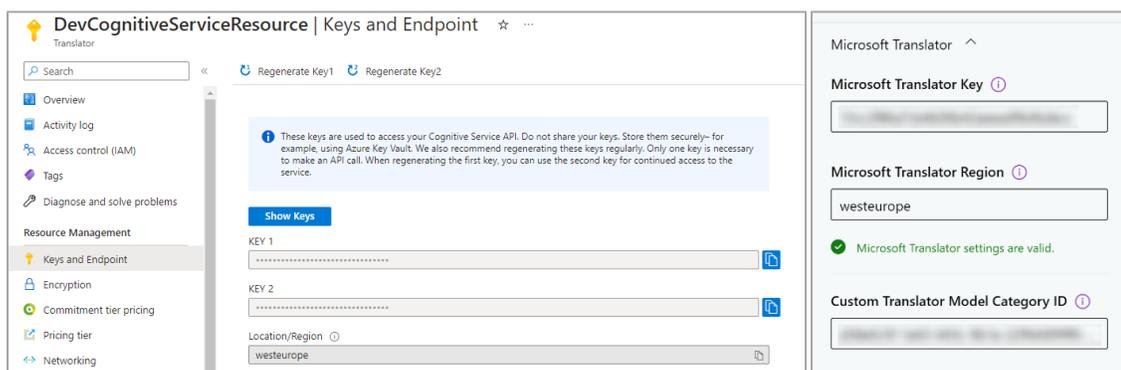
2. A box will appear to enter a license key. Enter the license key provided by Reply. And click **Apply**.



## Create a Microsoft Translator resource

A user with the Owner or Contributor role on your Azure Subscription will be required for these steps.

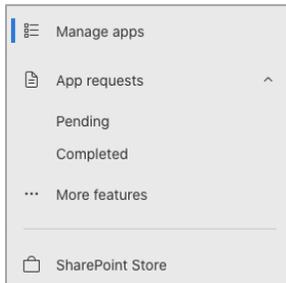
1. Select one of your available Azure **subscriptions**.
2. You can create a new **resource group** or add your resource to a pre-existing resource group.
3. Locate the **Translator** resource and add this to your resource group.
4. Select a **region** for your resource to be hosted in.
5. Enter the **name** you have chosen for your resource. The name you choose must be unique within Azure.
6. Select a pricing tier that meets your needs. Further details on Translator pricing can be found [here](#).
7. Select Review + Create.
8. Once your Translator resource has been created, in the left rail, select **Keys and Endpoint** under the Resource Management heading.
9. Copy the values from **Key 1** and **Location/Region**, and paste these values into the relevant sections of the Translator for SharePoint property pane.



10. Custom Translator is an optional feature supported by Translator for SharePoint. Further details on this service can be found [here](#).

## Upgrade the app

1. Go to the **More features** page of the new SharePoint Admin Centre, and sign-in with an account that has admin permissions for your organization.
2. Under **Apps**, select **Open** to open the **Apps** site.
3. Select **Manage apps**.



4. Upgrading store apps can only be triggered via the classic experience of the app catalogue. Click on the link to go to the **classic experience**.

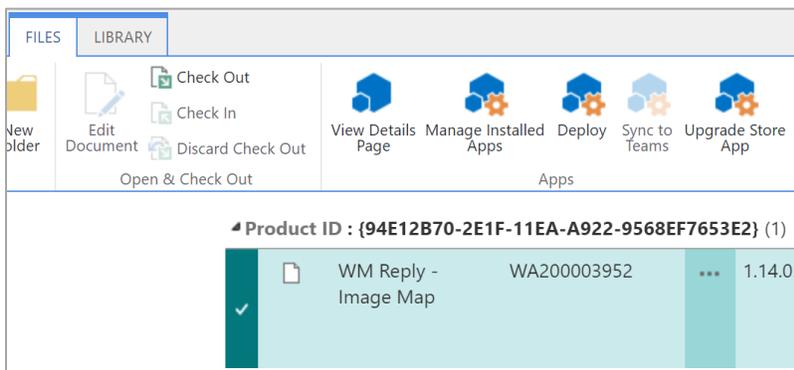
## Manage apps

Upload, enable, and manage apps. To update SharePoint Store apps, go to the [classic experience](#).

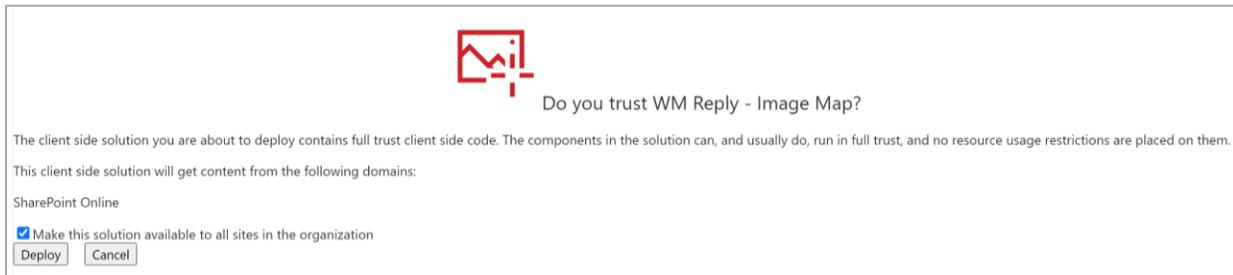
[Learn more about managing apps](#)

↑ Upload ...

5. Select the Accelerator app that requires a store upgrade. In the **Files** tab in the SharePoint ribbon, select the option for **Upgrade Store App**.

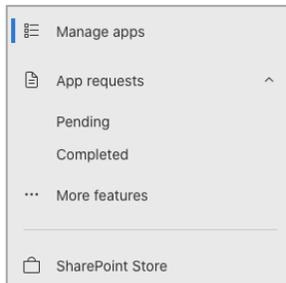


6. Based on how the app had been originally deployed, check, or uncheck the Make this solution available to all sites in the organization box and click **Deploy**.



## Uninstallation instructions

1. Go to the **More features** page of the new SharePoint Admin Centre, and sign-in with an account that has admin permissions for your organization.
2. Under **Apps**, select **Open** to open the **Apps** site.
3. Select **Manage apps**.



4. In the Apps for SharePoint list, select the row for the Reply Accelerator app you wish to uninstall.
5. Select **Delete**.



6. Select **Delete** to confirm that you want to send the app to the recycle bin.
7. To remove the Translator resource in Azure, navigate to your **Resource Group** in the Azure portal.
8. Select the Translator resource to be deleted by selecting the adjacent check box.
9. Select **Delete** from the top menu near the right edge.
10. Type *yes* in the **Deleted Resources** dialog box.
11. Select **Delete**.

## High-level design

### Overview

The Translator for SharePoint solution is architecturally a simple concept built upon the SharePoint Framework and Microsoft Azure Translator service. Translation is performed on-demand and follows this process:

1. A SharePoint editor requests for a page translation through the Translator for SharePoint app. A dialog box appears for the editor to notify them on the progress of their translation.
2. Translator for SharePoint creates an item in a log to track this translation request.
3. An API request is made to send the SharePoint page content to the Microsoft Translator service and Custom Translator if used.
4. Translated content is received and pasted into the relevant SharePoint language page in the same web parts and format.
5. The translation is complete.

### Expected deployment scope

It is expected that this app is made available only on specific areas of the tenant as necessary, e.g., a news site.

## Architectural notes

For apps that cannot store their content in within a web part on a SharePoint page, a mechanism for persisting the content is required. This is the case with the configuration settings for the Translator for SharePoint solution. The solution utilise the native functionality offered by SharePoint lists for this purpose. Most of these lists are hidden from users and are provisioned automatically by the apps as required. They can be accessed directly via URL or, where appropriate, a link is provided in the web part properties.

Translator for SharePoint utilises the following SharePoint lists:

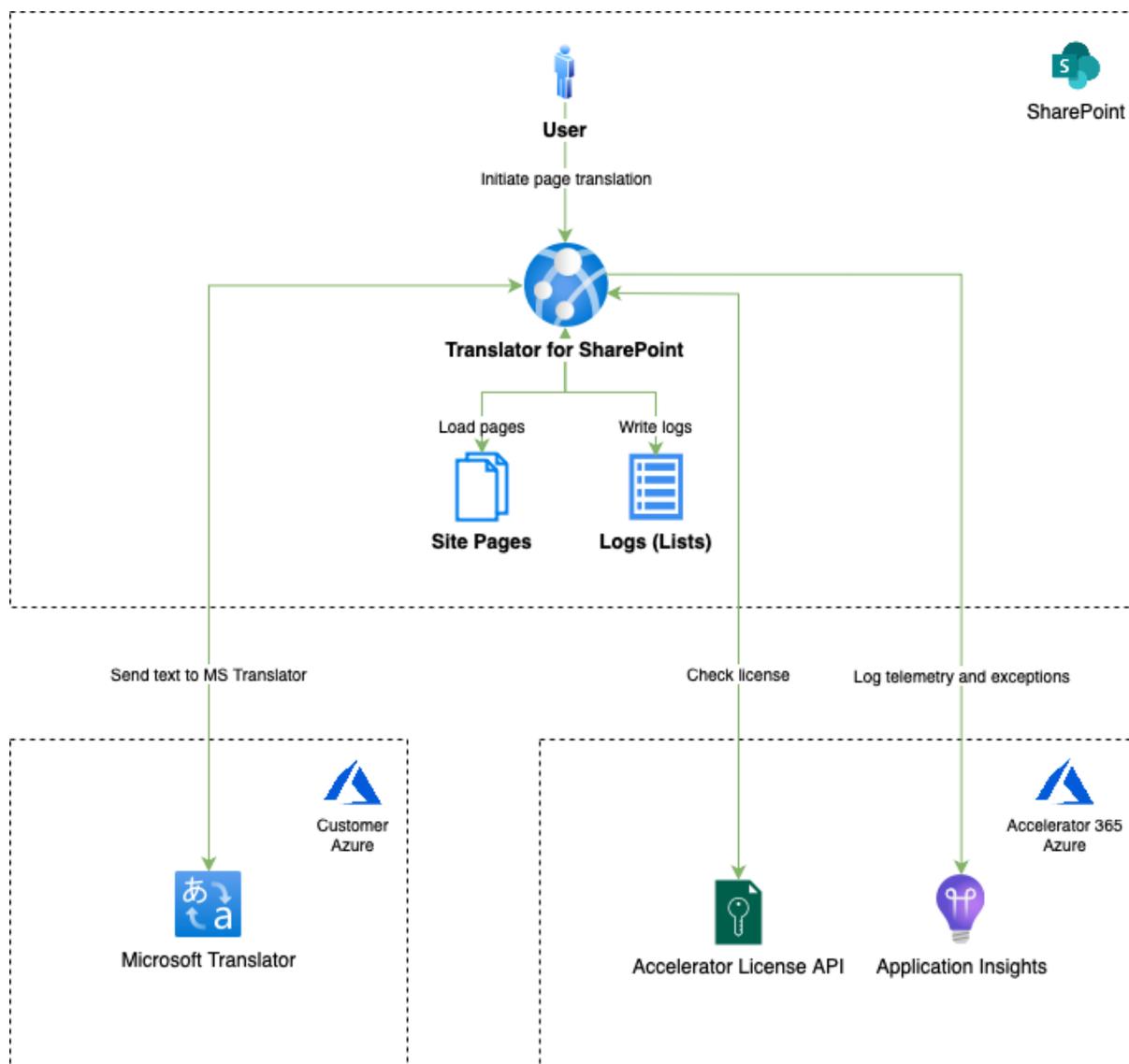
- Storage of the global settings used in Translator for SharePoint
  - Title: Global settings
  - Relative URL: /Lists/WMTFS\_GlobalSettings
- Storage of the reference Translator for SharePoint properties used by the extension on this site
  - Title: Site Properties
  - Relative URL: /Lists/WMTFS\_SiteProperties
- Storage of log entries created by Translator for SharePoint
  - Title: Translation Logs
  - Relative URL: /Lists/WMTFS\_TranslationLogs
- Storage of the translation status for each page
  - Title: Translation Statuses
  - Relative URL: /Lists/WMTFS\_TranslationStatuses

## Architectural diagram

The Translator for SharePoint solution is a SharePoint Framework (SPFx) application extension that is installed in a SharePoint tenant app catalogue. This means that all the necessary code, which is all client-side JavaScript, is stored within the SharePoint environment itself, and does not reference or load code stored externally.

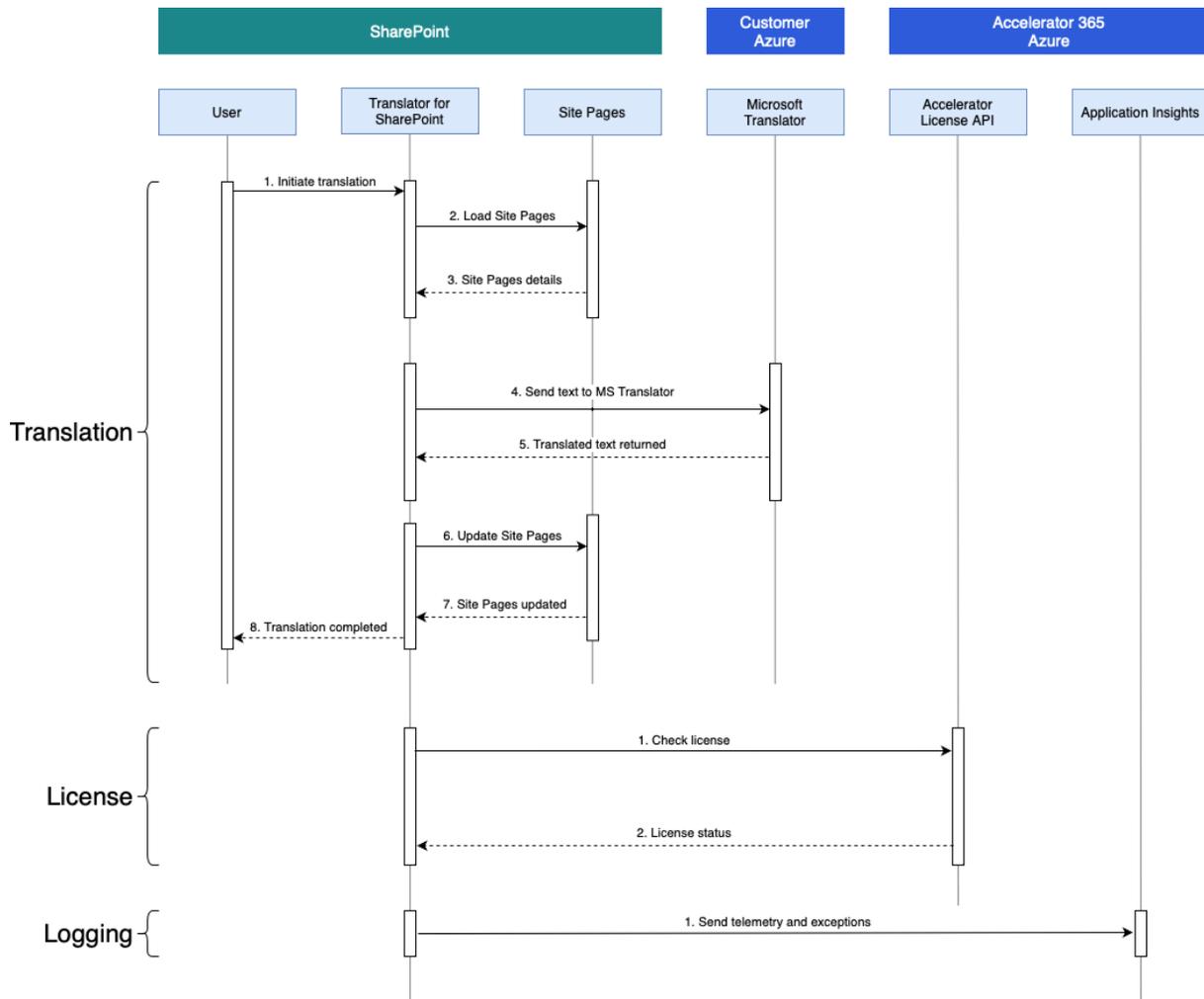
For the translation service, the solution communicates with a Microsoft Azure service. This is expected to be a service also within the security perimeter of the relevant organization, i.e. in a Microsoft Azure subscription owned by the organization.

The diagram below represents the above.



## Data flow

The Translator for SharePoint solution communicates with Microsoft Azure. All communication is triggered at the request of a user. The diagram below represents the flow of information.



### App telemetry

All apps and solutions from the Accelerator 365 are designed to send telemetry to a Microsoft Azure Application Insights service, owned by Reply. This does not track content or user data. It has been architected in this manner due to the evergreen nature of the SharePoint Online service, in order that Reply may be alerted to any exceptions or issues occurring due to updates and differences between Microsoft 365 tenancies. Please see the [Appendix](#) for a sample of the telemetry data sent.

## Appendix

### Required access endpoints

The following endpoints are accessed by Accelerator apps, and we recommend clients ensure they remain accessible in their network:

1. **Client Side Assets Library** – SharePoint stores all client side assets for SharePoint framework solutions, including Accelerator apps, in a central location in your SharePoint tenant. Ensure that access to the Client Side Assets Library is excluded from any organizational policies your company may have applied to SharePoint hosted libraries and documents.

[https://\[domain\].sharepoint.com/sites/appcatalog/ClientSideAssets/AllItems.aspx](https://[domain].sharepoint.com/sites/appcatalog/ClientSideAssets/AllItems.aspx)

2. **License server** – Access to Reply's license tool to ensure apps can successfully validate the license that has been assigned to your SharePoint tenant

<https://acceleratorlicenseapi.azurewebsites.net/>

3. **Application Insights** – Refer to the [App telemetry](#) section this document. Several URLs are required for our telemetry found in the Microsoft documentation:

<https://learn.microsoft.com/en-us/azure/azure-monitor/app/ip-addresses>

## Application Insights Data

The following table shows a sample of the usage telemetry captured in Application Insights.

Event time	5/16/2023, 9:15:41.13 PM (Local time)
Event name	Translator for SharePoint by Accelerator 365 - START
Operation Id	54d5c46288a1416b822d7f7f26e61b77
Parent Id	54d5c46288a1416b822d7f7f26e61b77
Telemetry type	customEvent
Operation name	/sites/TheLanding/SitePages/RMD.aspx
Session Id	CnP6rg2Myb73z+xIT579qo
User Id	8K2p+FRcNfinSEhnJy08Rx
Device type	Browser
Device model	Other
Operating system	Windows 10
Client IP address	0.0.0.0
City	Watford
State or province	Hertfordshire
Country or region	United Kingdom
Browser version	Chrome 113.0
SDK version	javascript:2.6.5
Sample rate	1
Resource Id	/subscriptions/abf0cc3e-3672-4b16-a73e-618a7ee22c9c/resourcegroups/accelerator-production/providers/microsoft.insights/components/acceleratorappsource
license_key	260d6d7e-2e30-4253-9b85-7dbbb23c34e3
license_exp	4102358400000
origin	https://wmaccelerator.sharepoint.com
solution	Translator for SharePoint by Accelerator 365 (version: 1.14.0.17, mode: PRD, telemetry: APPSTORE, cdn: SPO, appstore: true)

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solution_name	Translator for SharePoint by Accelerator 365
solution_version	1.14.0.17
solution_title	Translator for SharePoint by Accelerator 365
core_version	0.3.3-beta19
component_name	TranslatorApplicationCustomizer
component_type	Extension
site_serverRelativeUrl	/sites/TranslatorforSharePoint
site_serverRequestPath	/sites/TranslatorforSharePoint/SitePages/Home.aspx
user_id <sup>1</sup>	e0d2215d82ff4eacfc421f89d859305

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<sup>1</sup> Note: *user\_id* is a hashed value that Reply are unable to decode. It is acting as a unique identifier