



Better Translation Technology

XTM Connect – Microsoft Team Foundation Server

XTM Connect – Microsoft Team Foundation Server

Documentation for XTM Connect – Microsoft Team Foundation Server.

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1. Table of contents

1. Table of contents	3
2. Introduction	4
3. How XTM Connect – Microsoft Team Foundation Server works.....	5
4. General application characteristics	6
Connectivity	6
Prerequisites	6
User interface of the application.....	6
5. Security & communication.....	7
<i>Security.....</i>	<i>7</i>
<i>Communication</i>	<i>7</i>
6. Data required for configuration	8
<i>Data required for configuration of XTM Connect – Microsoft Team Foundation Server</i>	<i>8</i>
1. XTM login client details	8
2. Repositories.....	8
3. Buckets	8
4. Synchronization	8
5. Project creation in XTM.....	9
6. Target files delivery method	9
7. Personal access token	10

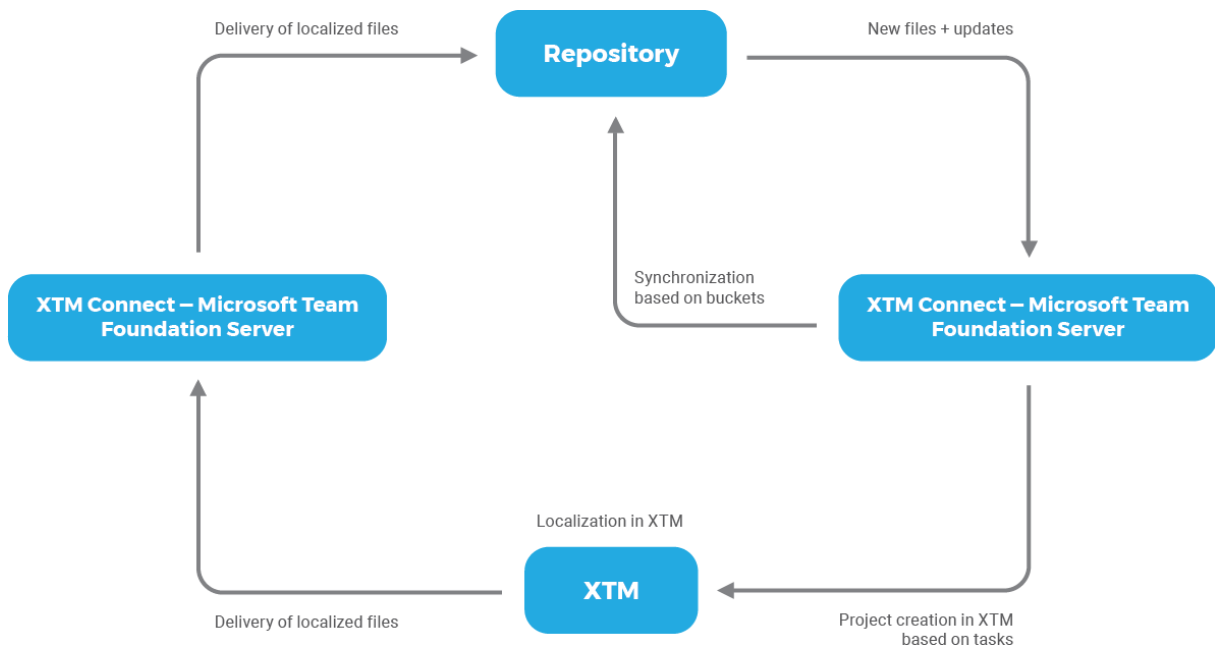
2. Introduction

XTM Connect – Microsoft Team Foundation Server is an auxiliary application for both XTM Cloud and XTM Suite. It connects to selected branches of Microsoft Team Foundation Server repositories through Visual Studio Team System to automate the process of sending new or changed content to XTM and creating translation projects. Then, once the project workflow is complete, it returns translated content to the repository. The advantages of XTM Connect – Microsoft Team Foundation Server are that it reduces the number of manual tasks and thereby decreases costs, turnaround times, and human errors.

3. How XTM Connect - Microsoft Team Foundation Server works

Once XTM Connect – Microsoft Team Foundation Server is configured to connect with a Microsoft Team Foundation Server repository, it synchronises the data at a specified time interval. At the moment of synchronization, XTM Connect – Microsoft Team Foundation Server recognizes files that have been updated or added to the repository since the last synchronization and creates copies of this content as tasks. The tasks are then used to create a project in XTM Cloud or Suite using a template predefined in XTM.

When the translation is finished, XTM sends the translated files back to XTM Connect – Microsoft Team Foundation Server which returns them to the original repository and the cycle is finished.



XTM Connect – Microsoft Team Foundation Server workflow diagram

4. General application characteristics

Connectivity

XTM Connect – Microsoft Team Foundation Server uses the XTM Web Service API for connecting with XTM Cloud or Suite described here www.xtm-intl.com/API. For connecting with Microsoft Team Foundation Server, the connector uses the [Team Explorer Everywhere](#) library v14.0.4.

Prerequisites

XTM Connect – Microsoft Team Foundation Server is a Java application installed on the client's or XTM International server. The server should have Apache Tomcat 8, the latest Java (SE JDK 8 Update 80 or later) and PostgreSQL database preinstalled. It should also have enough disk space for the files together with their localized versions in the required languages.

User interface of the application

XTM Connect – Microsoft Team Foundation Server does not have a user interface. The application configuration and installation will be fully performed by [XTM Support](#). Additional configurations and changes will be performed by [XTM Support](#) upon customer request.

Further development of the application functionality, in particular development of the user interface is possible.

5. Security & communication

Security

XTM Connect – Microsoft Team Foundation Server can be configured to connect only with selected branches of a repository. The change control verification mechanism used in the application recognizes which files have been added or updated based on file descriptors during the synchronization process.

Thanks to the limited access to repositories and verification of file descriptors instead of whole files XTM Connect – Microsoft Team Foundation Server offers prime IT security.

Communication

XTM Connect – Microsoft Team Foundation Server can be used with both cloud and standalone versions of XTM and Team Foundation Server.

Performance of the application can be increased by installing the XTM Connect – Microsoft Team Foundation Server application on an on-premise server with an existing Microsoft Team Foundation Server installation. Keeping the application together or within a company network increases both the performance of the connector as well as the company's data security.

6. Data required for configuration

Data required for configuration of XTM Connect – Microsoft Team Foundation Server

XTM International performs installation of XTM Connect – Microsoft Team Foundation Server. Please gather the following data and send it to XTM Support at support@xtm-intl.com to configure your instance of XTM Connect – Microsoft Team Foundation Server.

1. XTM login client details

- Client name used for logging in to XTM
- User ID or user name: XTM advises to create a new user specifically for XTM Connect so that it is simple to track XTM Connect activity separately from other users' human actions. XTM Connect user needs Project Manager role.
- Password for the user

2. Repositories

XTM Connect can connect to multiple repositories. If you want to configure multiple repositories, provide a list of them with the following data for each:

- Name of repository
- URL of the TFS collection, for example: <https://test.visualstudio.com/>
- Relative path to a project inside the collection (case sensitive), for example: `$/MyFirstProject/`
- Personal access token (you can find more information on generating a personal access token in the chapter: [Personal access token](#))

3. Buckets

A bucket is a configuration container for new or updated files in the repository. These files are taken for translation and the translated files returned. If you want to configure multiple buckets, provide a list of them with the following data for each:

- Bucket name: In case there are multiple repositories, branches and/or synchronization configurations, the bucket name can make any updates to the configuration simpler in the future.
- Repository name to connect to
- Base paths to files
- Extensions of files for synchronization: specify the extension of files which should be taken for translation.
- Information if the files for synchronization are used in a continuous project: A continuous project is a project where the source files are replaced with a newer version in order not to create multiple projects with the same, constantly evolving files.
- Optional, regular expressions for file names: you can specify a regular expression to filter files for translation based on their names in addition to the file extensions specified.



4. Synchronization

- Time intervals between synchronization with the repository: buckets will collect files for translation automatically as scheduled, thus frequent synchronization with repositories is not required. XTM suggests no less than 5 minutes between synchronization with repositories.

When a file that had already been synchronized has been updated, synchronized again but a translation project has not yet been created in XTM, XTM Connect will create a new task and cancel the previous one.

When a file that had already been synchronized has been updated, synchronized again and a translation project has been already created in XTM, translation of the previous version of the file will be completed in XTM and the updated version of the file will go for translation together with the next project created in XTM.

5. Project creation in XTM

- Base name for project: projects created by XTM Connect will always be named the same with a serial number added to the base project name.
- Customer ID: you can find the customer ID in XTM on the Customers tab. Place cursor on the  icon to display customer ID and other information.
- Template ID: XTM Connect takes all project data from a predefined template with the exception of the name of the project, customer choice and language combinations. You can find the template ID in XTM on the Projects > Templates tab. Place cursor on the  icon to display template ID.
- Language combinations: one source language and multiple target languages can be used.
- Project creation schedule: you can choose multiple times and days of the week for creating a new project in XTM based on synchronized files. Alternatively, new projects can be created in regular intervals, such as every day, once a week, fortnightly etc.

6. Target files delivery method

Choose whether you want to save translated files in shelvesets or directly in the repository. Additionally, consider mapping source file base paths to target file paths, eg. source files from \$/Project/Source can be delivered after translation to \$/Project/Target.

Shelvesets

When using shelvesets to deliver files, a new shelveset is created for each translated file. Files stored in shelvesets require manual check-in to the repository. When a file that has just been translated has the same name as a file already stored in a shelveset, the file in the shelveset will be replaced with the new one. You can find more information about shelvesets on the Microsoft website: <https://www.visualstudio.com/en-us/docs/tfvc/suspend-your-work-manage-your-shelvesets>.

Repository

Select one of the following options for saving the translated files

- Overwrite the source files – replaces source files with the translated files
- Create a sibling directory using target language – creates a new folder with the target language code and pastes files to that new directory
- Rename a file using target language – adds or modifies the target language code in the file name

When translated files are renamed using the target language, you can specify the way language and region codes are added to the file name. For example, a source file named file1.txt can be renamed after translation to file1-en_GB.txt, file1.EN_GB.txt etc.

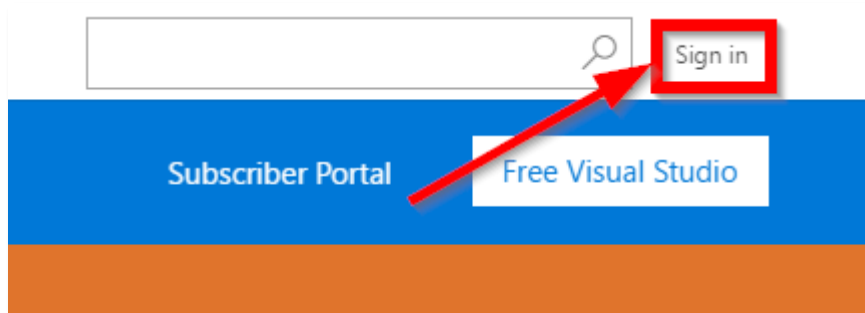
When translated files have been updated, the newly translated files will include a revision number. For example, a source file named file1.txt will be renamed after translation to file1-2.txt.

7. Personal access token

A personal access token is required for the XTM Connect – Microsoft Team Foundation Server application to connect with a specified Team Foundation Server. You can create your personal access token at <https://www.visualstudio.com/>.

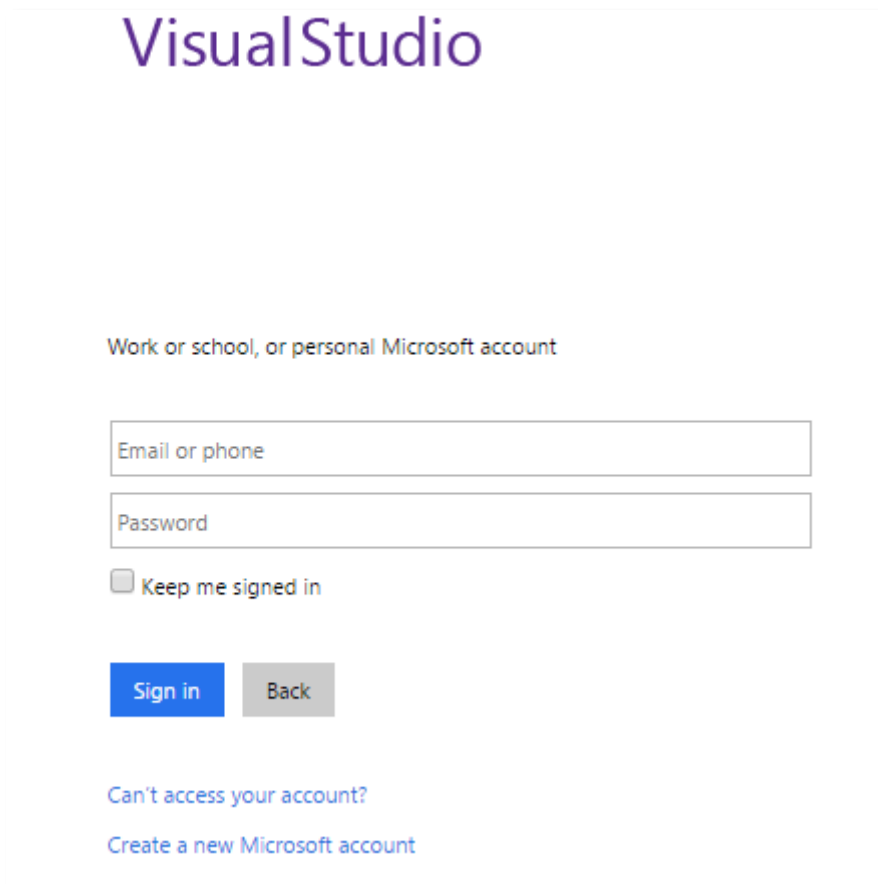
To create a personal access token:

1. Go to <https://www.visualstudio.com/> and sign-in in the top right corner of the screen.



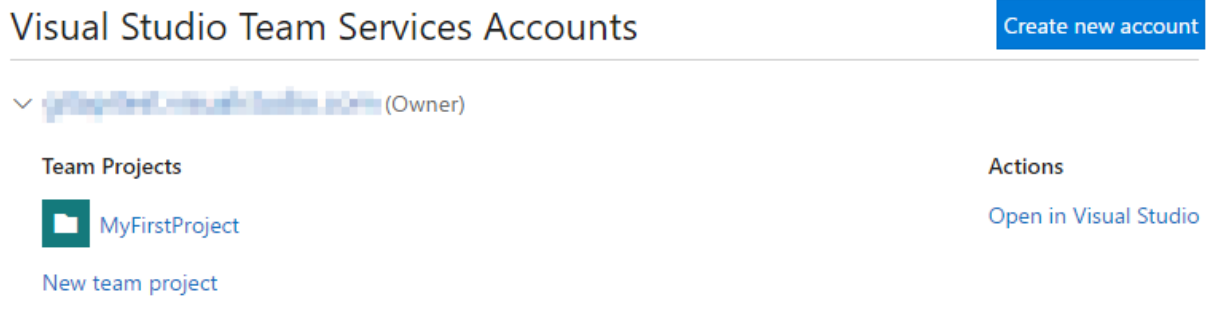
The sign in button

2. Enter your account details.

A screenshot of the Visual Studio sign-in page. The page has a white background with the 'VisualStudio' logo at the top. Below the logo, there is a heading 'Work or school, or personal Microsoft account'. There are two input fields: 'Email or phone' and 'Password'. Below these fields is a checkbox labeled 'Keep me signed in'. At the bottom, there are two buttons: 'Sign in' (blue) and 'Back' (grey). At the very bottom, there are two links: 'Can't access your account?' and 'Create a new Microsoft account'.

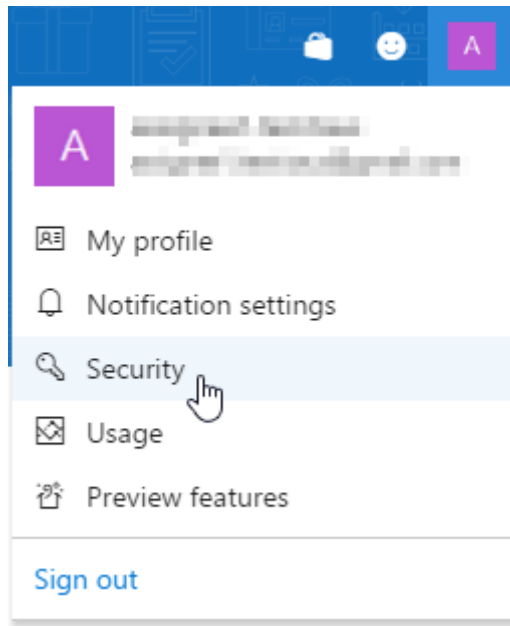
Sign in credentials

3. Click a Visual Studio Team Services Account or project for which you want to generate a personal access token.



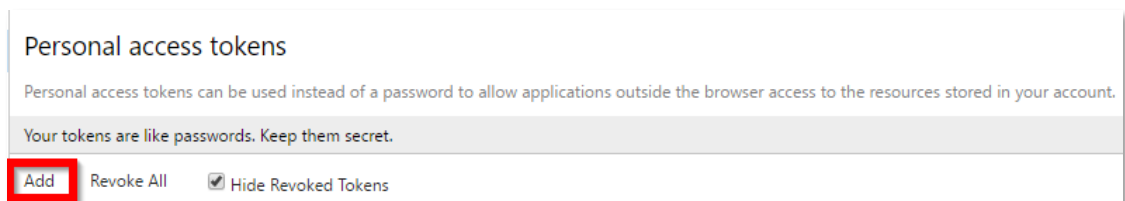
List of Visual Studio Team Services Accounts and related projects

4. Select Security from you profile menu in the top right corner of the screen.



User profile menu

5. Click the Add button.



The personal access tokens screen

- Enter a name for the token, choose for how many days it will be valid, the account and authorized scopes. You can either select Code (read, write, and manage) or All scopes. Then click the Create Token button.

Create a personal access token

Applications that work outside the browser may require access to your projects. Generate personal access tokens for applications that require a username and password.

Description:

Expires In:

Accounts:

Authorized Scopes

All scopes
 Selected scopes

<input type="checkbox"/> Agent Pools (read)	<input type="checkbox"/> Agent Pools (read, manage)	<input type="checkbox"/> Build (read and execute)
<input type="checkbox"/> Build (read)	<input type="checkbox"/> Code (read and write)	<input type="checkbox"/> Code (read)
<input type="checkbox"/> Code (read, write, and manage)	<input type="checkbox"/> Code (status)	<input type="checkbox"/> Connected Server
<input type="checkbox"/> Entitlements (Read)	<input type="checkbox"/> Extension data (read and write)	<input type="checkbox"/> Extension data (read)
<input type="checkbox"/> Extensions (read and manage)	<input type="checkbox"/> Extensions (read)	<input type="checkbox"/> Identity (read)
<input type="checkbox"/> Load test (read and write)	<input type="checkbox"/> Load test (read)	<input type="checkbox"/> Marketplace
<input type="checkbox"/> Marketplace (acquire)	<input type="checkbox"/> Marketplace (manage)	<input type="checkbox"/> Marketplace (publish)
<input type="checkbox"/> Notifications (manage)	<input type="checkbox"/> Notifications (read)	<input type="checkbox"/> Notifications (write)
<input type="checkbox"/> Packaging (read and write)	<input type="checkbox"/> Packaging (read)	<input type="checkbox"/> Packaging (read, write, and manage)
<input type="checkbox"/> Project and team (read and write)	<input type="checkbox"/> Project and team (read)	<input type="checkbox"/> Project and team (read, write, and manage)
<input type="checkbox"/> Release (read)	<input type="checkbox"/> Release (read, write and execute)	<input type="checkbox"/> Release (read, write, execute and manage)
<input type="checkbox"/> Team dashboards (manage)	<input type="checkbox"/> Team dashboards (read)	<input type="checkbox"/> Team rooms (read and write)
<input type="checkbox"/> Team rooms (read, write, and manage)	<input type="checkbox"/> Test management (read and write)	<input type="checkbox"/> Test management (read)
<input type="checkbox"/> User profile (read)	<input type="checkbox"/> User profile (write)	<input type="checkbox"/> Work items (read and write)
<input type="checkbox"/> Work items (read)		

Adding a personal access token

- Now save the token in a secure location, because XTM Connect – Microsoft Team Foundation Server will need it to connect with your Team Foundation Server.



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