

Configuring XPression Maps to Use Azure Maps Services

XPression Maps can be configured to use **Microsoft Azure Maps** as its external map service provider. Once connected to a valid Azure Maps account, XPression Maps integrates with Azure Maps services to perform various tasks such as geolocation searches and retrieving map imagery tiles of various styles, including satellite views.

- ★ XPression Maps supports integration with several third-party map service providers, which require customer-managed, pay-as-you-go subscription accounts. Ross Video does not offer billing integration with these vendors; all transactions are handled via the API Key provided by the customer.

Customers are fully responsible for setting up and managing subscriptions, payments, and account details directly with each third-party provider. Ross Video does not participate in any billing or commercial arrangements with these services.

Overview of the Configuration Process

To configure XPression Maps to use Microsoft Azure Maps services:

1. Open and sign in to the [Microsoft Azure Portal](#) using your **Microsoft account** credentials.
2. Select your **Azure Maps** account.
If you don't already have one, create an **Azure Maps** account.
See [Creating an Azure Maps Account](#) ².
3. Acquire a copy of the primary authentication key for the Azure Maps account.
See [Acquiring the Primary Authentication Key](#) ⁴.
4. Launch the **XPression Maps** application.
5. In the **Preferences > Connections** window, enter and validate the primary authentication key, then set both the **Search** and **Base Maps** fields to **Azure Maps**.
See [Configuring the External Provider Settings in XPression Maps](#) ⁵.
6. Save the changes and close the **Preferences** window.
7. Restart **XPression Maps**.
Azure Maps is now the assigned external mapping service provider.



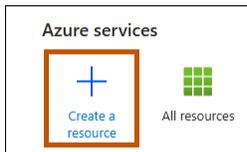
Creating an Azure Maps Account

Azure Maps is a suite of cloud-based map and location services provided by Microsoft as part of the Azure platform. If you don't already have an **Azure Maps account**, perform the following procedure to create a new account.

- ★ A valid **Microsoft Azure account** is required to create a new Azure Maps account. If you don't already have an **Azure account**, [sign up](#) for an account and subscription before you continue.

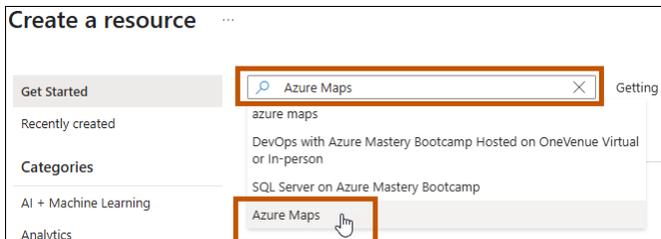
To create a new Azure Maps account:

1. Open and sign in to the [Azure Portal](#).
2. From the **Azure services** section, select **Create a resource**.



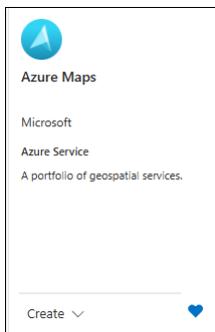
Azure Portal - Create a resource

3. In the search bar, type **Azure Maps**, then select **Azure Maps** from the results.



Create a resource - Search for Azure Maps

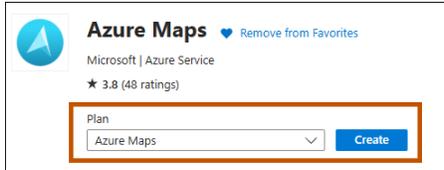
4. In the **Marketplace**, select the **Azure Maps** tile.



Marketplace - Azure Maps Tile



5. In the **Plan** drop-down, ensure that **Azure Maps** is displayed, then select **Create**.



Azure Maps - Create

6. On the **Create Azure Maps Account** page, select the **Basics** tab and enter the information for your new account.
- In the **Project Details** section, select your Azure **Subscription** and **Resource** group.
 - In the **Instance details** section, enter a **Name** and **Region** for the account and set the **Pricing tier**.
 - In the **Terms** section, select the checkbox to confirm and agree with the license and privacy statement.
 - Select **Review + create**.

Create an Azure Maps Account Resource

7. Verify all account details and select **Create**.
8. Once complete, select **Go to Resource** under **Next steps** to go to your Azure Maps account dashboard.



Acquiring the Primary Authentication Key

When you create an Azure Maps account, a set of shared authentication keys is automatically generated. These keys enable Azure Maps to verify and authorize requests from external applications, like XPression Maps.

To acquire a copy of the primary authentication key from your Azure Maps account:

1. Open and sign in to the [Azure Portal](#).
2. In the **Azure services** section, select **Azure Maps Accounts**.



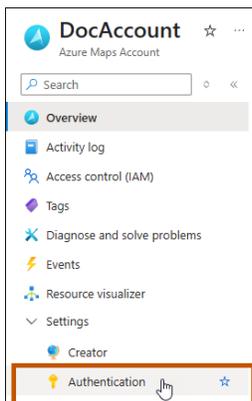
Azure Services - Azure Maps Accounts

3. In the **Resources** section, select your **Azure Maps** resource.



Resources - Azure Maps Resource

4. In the left-hand navigation pane, in the **Settings** section, select **Authentication**.



Settings - Authentication

5. In the **Shared Key Authentication** section, select the **Copy to clipboard** icon in the **Primary Key** field.



Authentication - Shared Key Authentication - Primary Key

6. Save the primary key in a text file. You'll need it to configure XPression Maps.



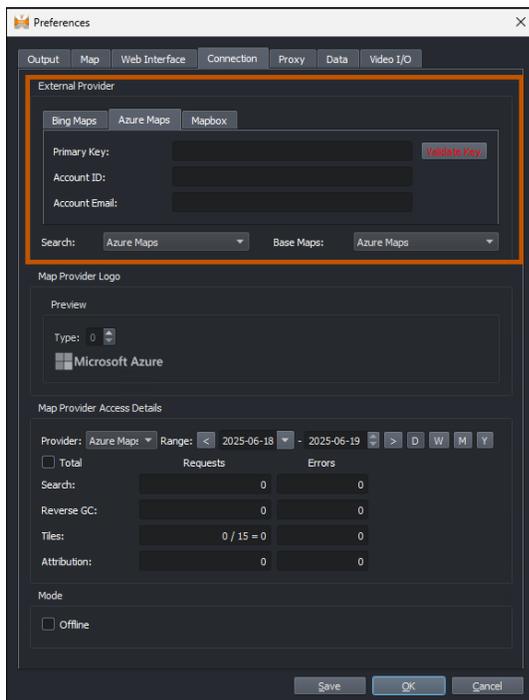
Configuring the External Provider Settings in XPression Maps

To integrate XPression Maps with Azure Maps services, you need to connect it to your Azure Maps account and specify **Azure Maps** as the provider for location searches and base maps.

- ★ You must have the primary authentication key for your Azure Maps account. See [Acquiring the Primary Authentication Key for the Azure Maps Account](#) for instructions.

To configure the XPression Maps External Provider settings:

1. Open XPression Maps and select **File > Preferences**.
2. Select the **Connection** tab.
3. In the **External Provider** section, select the **Azure Maps** tab.



Preferences - Connection - Azure Maps

4. In the **Primary Key** field, paste the primary key you copied from your Azure Maps account.

The **Account ID** and **Account Email** fields are optional and are provided for the user to keep track of the account and email address under which the application key is running.

5. Then select **Validate Key** to check if the key is working.

If the key is valid, the button turns green and displays **Key is valid**.



6. In the **Search** field, select **Azure Maps** as the location service provider used by the **Search Editor** tool in XPression Maps.
7. In the **Base Maps** field, select **Azure Maps** as a maps tiles provider for certain map styles integrated in XPression Maps.
8. Select **Save**, then **OK**.
9. Restart XPression Maps to apply the changes.