MobileIron Access Cookbook

Access with Dropbox Business and Microsoft ADFS

Revised: November 02, 2017

Contents

Overview

SAML provides single sign-on capability for users accessing their services hosted in a cloud environment. Generally, a service provider such as Dropbox-EMM is federated with an identity provider such as Microsoft ADFS for authentication. The user gets authentication from ADFS and obtains a SAML token for accessing applications in a cloud environment, such as Dropbox-EMM.
This guide serves as step-by-step configuration manual for users using ADFS as an authentication provider with Dropxox-EMM in a cloud environment.

Prerequisites

Verify that you have the following components in your environment:

- Ensure that you have a working setup of native federation for Dropbox Business and ADFS in your environment.
- ADFS version 3.0
- **ADFS (IDP) Metadata Files**
  You must download the ADFS metadata files for ADFS (IdP)
  - Download ADFS metadata file from https://<ADFS Server FQDN>/FederationMetadata/2007-06/FederationMetadata.xml
- **Dropbox Business (SP) Metadata Files**
  - **Entity ID**: https://www.dropbox.com/saml_login
  - **Assertion Consumer Service URL**: https://www.dropbox.com/saml_login

Configuring Dropbox-EMM and Microsoft ADFS with MobileIron Access

You must perform the following tasks to accomplish the configuration between Dropbox-EMM and ADFS:

Configure Access to Create a Federated Pair

You must configure Access to select your service provider and the identity provider. You can apply the configuration settings for the service provider and the identity provider. It creates a federated pair.

Procedure

1. In Access, click **Profile** > **Get Started**.
2. Enter the Access host information and upload the ACCESS SSL Certificate. Use the default values for the other fields. Click **Save**.
   Note: Perform the abover steps only if a profile is not available.
3. Click **Profiles** > **Federated Pair** > **Add New Pair.**
4. Select **Dropbox Business** option under the **Choose Service Provider**.
5. Enter the following details:

   - Name for the Federated Pair
   - Description
   - Select the **Access Signing Certificate** or use the **Advanced Options** to create a new Access Signing Certificate.
   - **Upload** or **Add Metadata**
     - Entity ID: https://www.dropbox.com/saml_login
     - Assertion Consumer Service URL: https://www.dropbox.com/saml_login
   - (Optional): Select **Use Tunnel Certificates for SSO** for users to be authenticated automatically. This leverages the user's authentication in the MobileIron Tunnel VPN. See *Appendix* in the *MobileIron Access Guide* at https://support.mobileiron.com/docs/curent/accs.

6. Click **Next** and select **Microsoft** as the identity provider.
7. Select the **Access Signing Certificate** or use the **Advanced Options** to create a new self-signed Access Signing Certificate.
8. Select Upload Metadata, Add Metadata, or Metadata URL to provide the **IdP metadata** details that you saved. See Prerequisites.
   See https://support.mobileiron.com/docs/curent/accs for more information.
   Click **Done**.

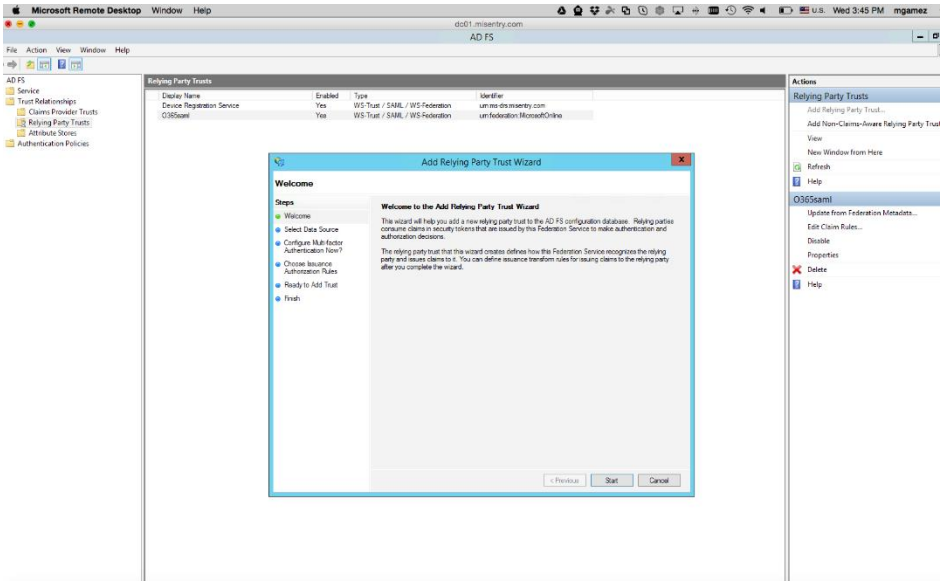
9. Download the **Access SP Metadata (Upload to IDP)** and **ACCESS IDP Metadata (Upload to SP)** metadata files.
10. Click **Publish** to publish the profile.

Configure the ADFS environment with MobileIron Access

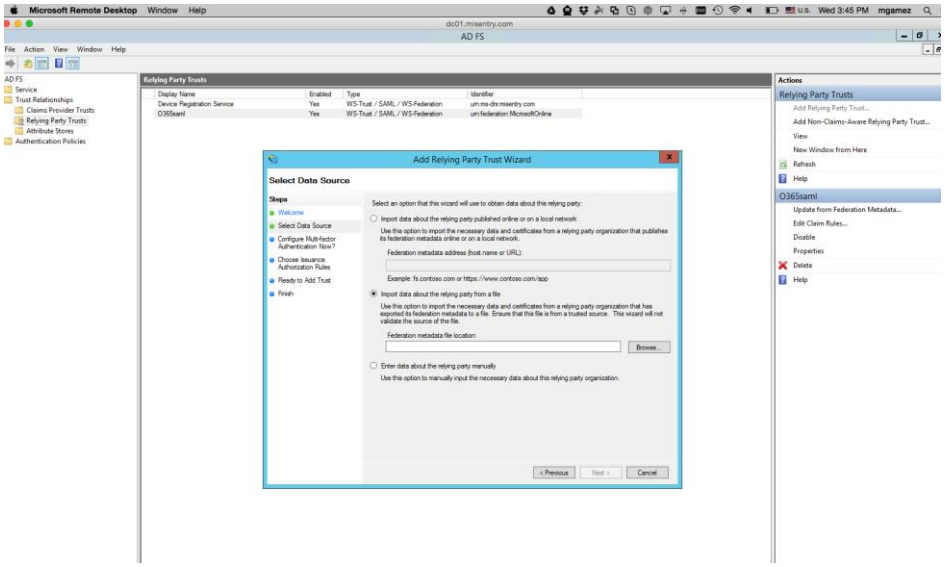
You must configure the identity provider with the service provider metadata file. This builds the trust relationship with the service provider.

Procedure

1. Use Remote Desktop services to log into an ADFS machine with Admin credentials.
2. Click **Start** > **Administrative tools** > **ADFS Management** > Expand **Trust Relationships.**
3. Click **Relying Party Trust.** In the right-hand pane, under the **Actions** section click **Add Relying Party Trust** and follow the prompts.

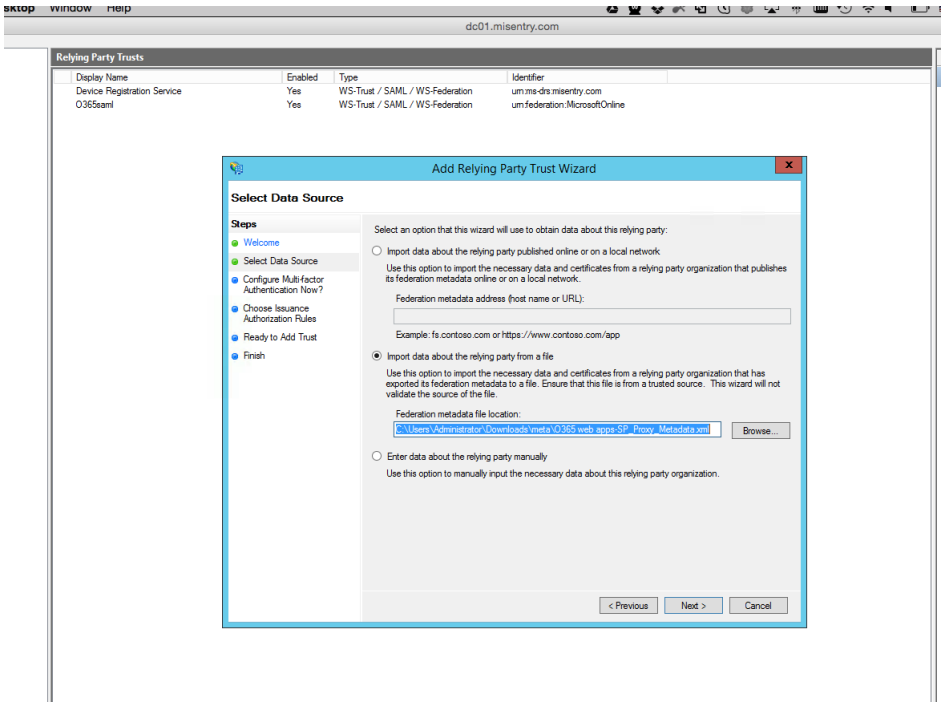


4. Click **Start** and select **Import data about the relying party from a file**. Click **Next**.



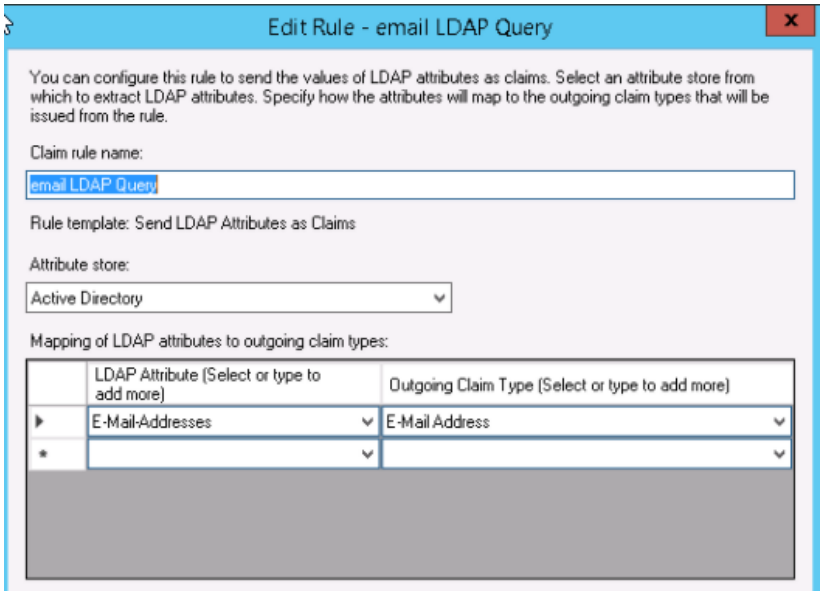
5. Click **Browse** and select the service provider metadata file that you downloaded and click **Next**.

   Note: The filename for the proxy metadata file name ends with *UploadTo-Microsoft ADFS-IdP.xml*.

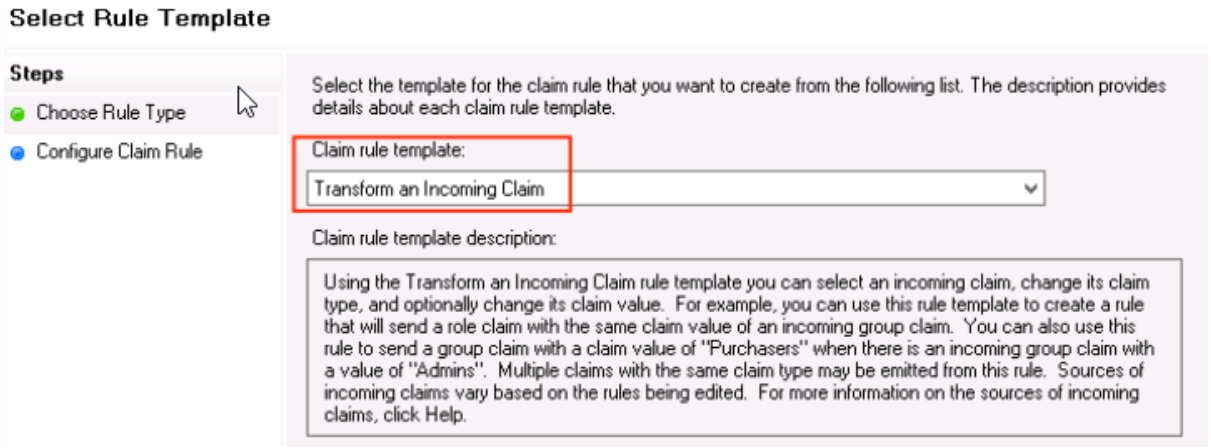


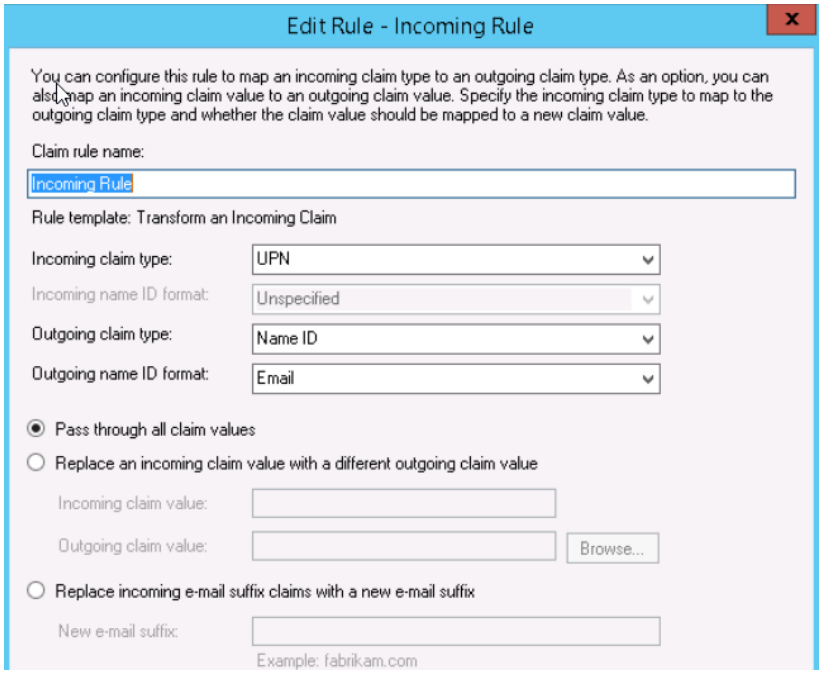
6. Enter the **Display Name** and click **Next.**
   All other fields are set to defaults. Follow the prompts.
7. At the end, select **Open Edit Claim rules dialog for relying party trust**.
8. Select SHA01 for encrypted algorithm.
9. In the **Claim Rule Template** drop-down, select **Send LDAP Attributes as Claims** and click **Next.**

10. Configure **Claim rules** as follows:



11. Add another Claim Rule.





11. Right-click the Relying Party Trust that you added.
12. Click **Properties** > **Advanced** tab, select SHA-1 as **Secure hash algorithm**.
13. Click **Apply** and **OK.**

Configure the Dropbox-EMM environment with MobileIron Access

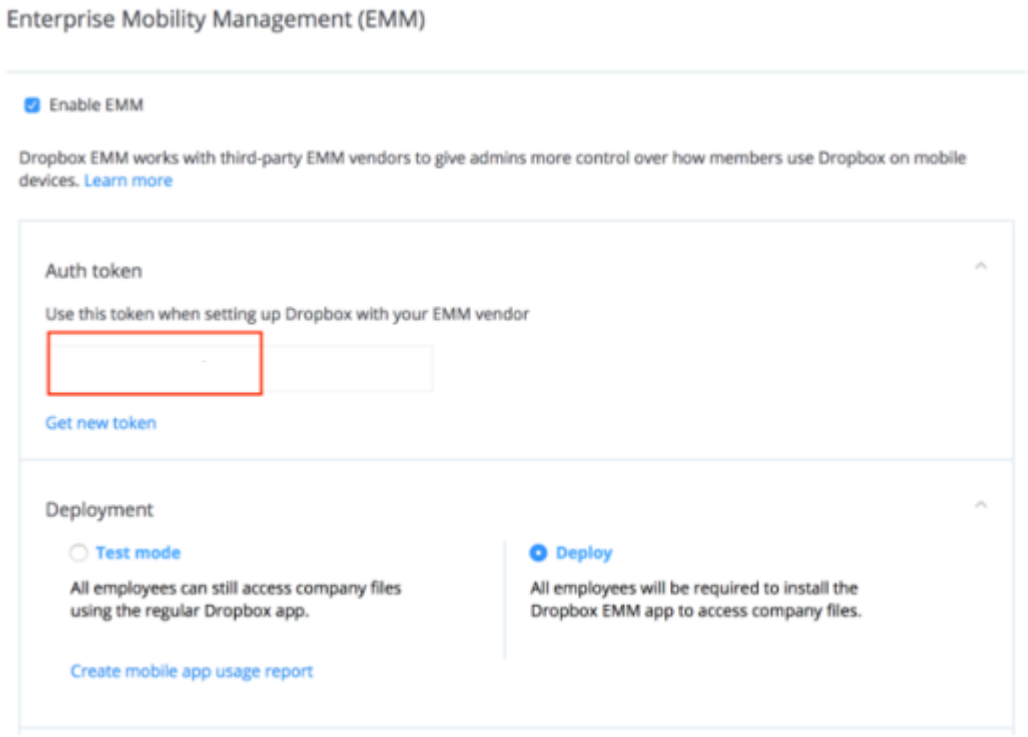
Dropbox-EMM does not let you upload a metadata file. The information must be extracted from the IDP Proxy metadata file. Extract the Entity ID from the IDP Proxy metadata file.

Procedure

1. Login to Dropbox with admin credentials.
2. Open the SP Proxy metadata file that you downloaded when configuring Access for federated pair.
3. Extract the certificate from the IDP Proxy metadata file and save it in the *.cer* file.

4. Click **Settings** > **Single Sign On**, enter Sign-in URL and upload the extracted certificate.

5. Click **Settings > Devices > Enterprise Mobility Management** and copy the **Auth token** to setup Dropbox with the EMM vendor.

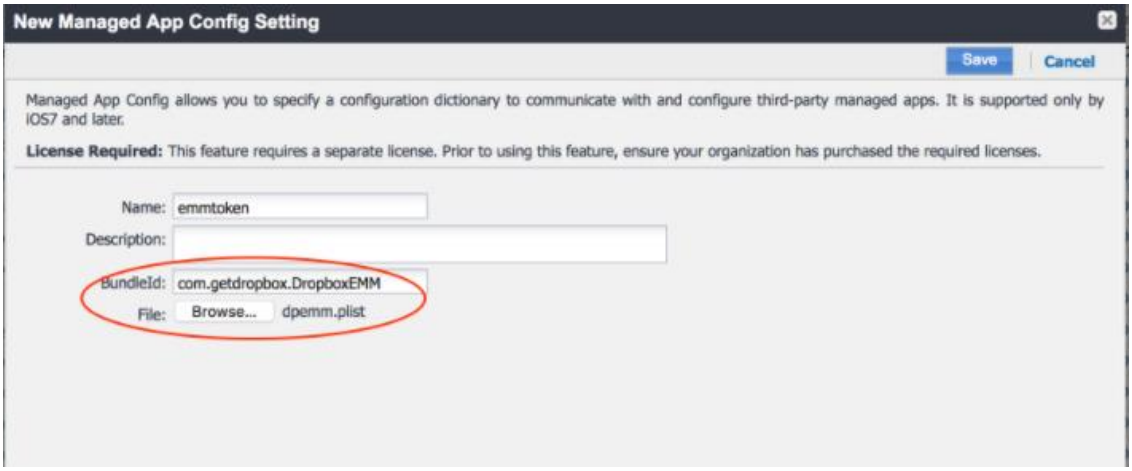


6. Create a *.plist* file and save the token.

```
<?xml
version="1.0"
encoding="UTF-8"?>
<!DOCTYPE
plist
PUBLIC
"-//Apple
Computer//DTD
PLIST
1.0//EN"
"http://www.apple.com/DTDs/PropertyList-1.0.dtd">
<plist
version="1.0">
<dict>
<key>team_emm_token</key>
<string><token></string>
</dict>
</plist>
```

Send Token to Dropbox-EMM app from Core

1. Login to the Core with admin credentials.
2. Click **Policies & Configs > Configuration.**
3. Click **Add New > iOS & OSx.**
4. Select **Manage App Config > Configure Bundle ID.**

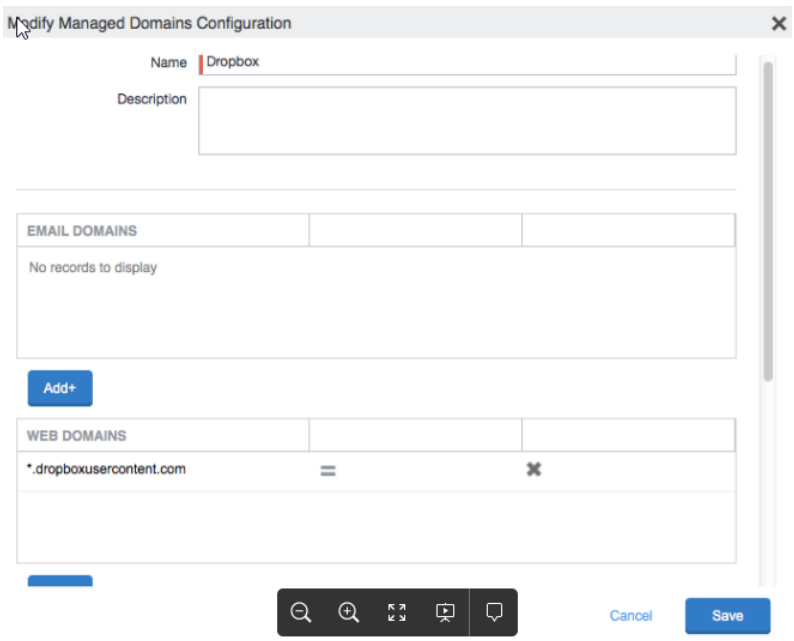


5. Upload the *.plist* file and click **Save**.
6. Apply label to Managed App Config setting.

Configure Core to Apply App Restrictions

You must configure Core to prevent access to documents from Dropbox to unmapped apps website on Safari Domain on an iOS device.

1. Login to Core with admin credentials.
2. Click **Policies & Configs > Configuration.**
3. Click **Add New > iOS & OSx.**
4. Select **Managed Domain.**
   5. Click **Add+** to add a row under the **WEB DOMAINS** section such as `*.dropboxusercontent.com or *.dropbox.com.`



6. Click **Save** to assign domain to an IOS Device.
7. Click **Policies & Configs > Configuration.**

8. Click **Add New > iOS & OSx > Restrictions.**
9. On the **Modify Restriction Settings** wizard, clear the following options:
    - Allow documents from managed apps to unmapped apps
    - Allow documents from unmapped apps to managed apps
10. Click **Save** to assign the configuration to an iOS device.

Task Result:

This configuration does not allow users to open documents from Dropbox site through Safari browser. The *Open In* option displays Dropbox-EMM app or other managed apps.

Register Sentry to Access

You must register Sentry to Access to fetch the latest configuration from Access.

Prerequisite

Verify that you have registered Sentry earlier. If so, then do not perform this step.

Procedure

1. **Clish** Sentry. In the configuration mode, execute the following command for registration.
   (config)#accs registration https:/<FQDN of Access server><Admin Username of Access Server>
2. Enter the **Tenant password** and complete the registration.
3. In **Access**, click the **Sentry** tab.
4. Select the appropriate Sentry instance, then click **Action** > **Assign**.
5. Enter the tenant password for the profile.
6. Click **OK**.
7. **Clish** Sentry and execute the following command in configuration mode to fetch the latest configuration from Access immediately:

   (config)# accs config-fetch update

   Note: All the published configuration changes are fetched by Sentry assigned to the profile in fifteen minutes. However, if you want to see the changes immediately, then perform Step 6.

Verification

Single-sign-on service is now configured using SAML with Dropbox-EMM as the service provider and Microsoft ADFS as the identity provider. This configuration lets you fetch the latest configuration from Access.

1. Register the device to core.

2. Open Dropbox for EMM application.
3. Observe the SAML SSO logs in sentry log file.
4. Login successfully to tenant from Dropbox for EMM application.
5. You must be unable to login to the tenant from other applications and browsers.