AVAIL

AVAIL & Azure Active Directory Integration

Reference & Instruction Guide



AVAIL[™] & Azure Active Directory Integration

Reference & Instruction Guide

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Overview

This document will guide you through the necessary steps for configuring AVAIL with Azure Active Directory for your organization.

Generally, the document guides through the following tasks:

- How to configure AVAIL as a custom application within your Azure AD.
 - You can assign all users, a subset of users, or an existing group in your company Azure AD to this application.
- How to configure a dedicated Publishers group within your Azure AD.
 - You will be assigning users and/or existing groups (e.g. a BIM Managers group) in your Azure AD to this new Publisher group.
 - All users that are assigned to the AVAIL application within your Azure AD are able to sign in to AVAIL. The Publisher group that is defined in your Azure AD will be translated such that any member of that group will have Publisher privileges within the AVAIL application, such as creating channels, indexing content into channels, and managing and curating tags on content.
 - Any user that is not a member of that Publisher group, but is assigned to the AVAIL application, defaults to a Consumer role.
- How to deploy the AVAIL Desktop software.
 - During the deployment process, you include installer switches that are associated with your Azure AD. When the software is deployed with these switches, it places a special config file on each user's machine that contains info about the AVAIL application that you set up in Azure.
 - When the user launches the AVAIL software, the user is presented with your company's Azure login dialog.

Your Azure Active Directory & AVAIL

Your Azure Active Directory (AD) will establish a trust relationship with AVAIL. Because of this trust relationship, AVAIL is able to accept this token and authenticate the user. Your Azure AD will use a token-signing certificate to digitally sign all security tokens that it produces. Because each security token is digitally signed by your Azure AD federated services, AVAIL can verify that the security token was in fact issued by you and that it was not modified. This helps prevent attackers from forging or modifying security tokens to gain unauthorized access to resources.

(1) When a user launches the AVAIL application on their workstation, (2) AVAIL retrieves the necessary authority issuer endpoint for (3) requesting a security token from your Azure AD. (4) AD provides a token that contains information about the user requesting access to AVAIL then (5) sends the token to the AVAIL web service. (6) AVAIL will request a token-signing certificate upon receiving the token from your federation URI, which is then (7) returned to validate the token. (8) Once the token is verified, AVAIL will parse the claims extracted from the token and determine what actions the user is authorized to perform, and then (9) return those as claims back down to the AVAIL application.



Configuring AVAIL in Azure

In this section, you will be registering the AVAIL Application, configuring the application with certain permissions, and defining an AVAIL Publishers group all within your Azure Active Directory Portal.

Registering the AVAIL Application

1. From the main navigation bar, select Azure Active Directory, then **App registrations**.



2. Click + New application registration.



3. In the registration form located in the right-hand region, enter in the values shown in the table below. Click **Create** to complete the registration.

Кеу	Value
Name	AVAIL
Application Type	Public client (mobile & desktop)
Sign-on URL	https://getavail.com

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🐑 Resource groups	orted account types										
🔇 App Services	W can use this application or access	s this API?									
Function App	Accounts in this organizational dir	rectory only (AVAIL Solutions, Inc.)									
🐻 SQL databases	Accounts in any organizational dir	rectory									
🖉 Azure Cosmos DB	Accounts in any organizational dir	rectory and personal Microsoft accounts	(e.g. Skype, Xbox, Outlook.com)								
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Azure Active Directory	We'll return the authentication respon optional and it can be changed later, t	se to this URI after successfully authentic out a value is required for most authentic	ating the user. Providing this now ation scenarios.	is							
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Cost Management + Billing											
Help + support	-										
	By proceeding, you agree to the Micro	isoft Platform Policies 🗹									
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Granting Permissions

Now that the AVAIL Application has been created in Azure, you will next need to grant permission to sign in and read the user's profile.

1. In the AVAIL application menu, select the API permissions option.



2. In the **API permissions** page, enable the following API Permissions by click the **+Add a permission** button, under the **Microsoft Graph API**:

API / Permission name	Туре
email	Delegated
offline_access	Delegated
openid	Delegated
profile	Delegated
User.Read	Delegated
Groups.Read.All	Delegated

- 3. In the API permissions page, click Grant admin consent for AVAIL Solutions, Inc.
 - If you are prompted "Do you want to grant consent for the requested permissions below for all accounts?", select **Yes**.

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Configuring the Manifest

1. Navigate back to the **App Registrations** section and click on the **AVAIL** application.



- ▲ Overview Microsoft Azure × + → C A https://portal.azure.co ٥ Microsoft Azure 8 d⁹ © Dashboard > AVAIL Solutions, Inc. - App registrations > AVAIL + Create a resource AVAIL * × 🛧 Home Contraction Contractic Con 🛄 Dashboard Overview Supported account types : My organization only Redirect URIs : 0 web, 1 public client Managed application in ... : AVAIL Display name : AVAIL ∃ All services 😃 Quickstart Application (client) ID : 00aa65a9-5fb5-4f72-937c-9a844cdeea05 + FAVORITES Directory (tenant) ID : 4f4fc943-0539-4723-91d9-7c0ff4a06a83 Manage All resources Object ID : 3e9491f4-91e1-40bb-8d3c-10eb4123e983 🔤 Branding 🐑 Resource groups ۸ Authentication 🔇 App Services Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Legacy)? Le × 💡 Certificates & secrets 🦘 Function App API permissions 菌 SQL databases Expose an API 🖉 Azure Cosmos DB Call APIs Documentation 🔣 Owners Microsoft identity platform Authentication scenarios Authentication libraries Code samples Microsoft Graph Glossary Help and Support Virtual machines 🔶 💽 💽 🐇 🛤 🔟 Manifest 💠 Load balancers Support + Troublesho 💶 🦲 📭 🧔 🐼 🥁 Storage accounts \star Troubleshooting 💮 Virtual networks New support request Build more powerful apps with rich user and business data from Microsoft services and your own company's data Azure Active Directory 😬 Monitor View API Permissions 🜪 Advisor Security Center Sign in users in 5 minutes Cost Management + Billing 🔒 Help + support Use our SDKs to sign in users and call APIs in a few steps View all quickstart guides
- 2. In the AVAIL Application area, click **Manifest**.

 In the Edit manifest area in the JSON listed, you should see an item called "groupMembershipClaims". Change the value from null to "SecurityGroup".



4. Click **Save** at the top of the **Edit manifest** section.

A Manifest - Microsoft Azure × + ↔ → C	AD. RegisteredApps/ApplicationMenuBlade/Manifest/guickStartType//sourceType//appld/00aa65a	9-5fb5-4f72-937c-9a844cdeea05/isMSAApp//servicePrincipalCreated/true	- ¤ ×
Microsoft Azure	P Search resources, services, and docs	> 5	djustice@getavail.com
Ø Dashboard > AVAIL Soluti	s, Inc App registrations > AVAIL - Manifest		
	C C C C	vesentation. For more details, see: Understanding the Azure Active Directory applic	A >
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Creating the Publisher Role Group

Overview

AVAIL supports two primary application roles: Publisher and Consumer. Publishers are generally those who manage content on your network, such as your BIM Managers. Publishers have the ability to create channels, index content into those channels, and share the channels with others within their plan. Consumers on the other hand can only consume the channels that have been shared with them.

In the <u>Configuring the Manifest</u> section, you configured the AVAIL Application to be able to read a user's Active Directory group memberships. When AVAIL receives, verifies, and parses the group memberships from the token, it will check to see if that user is a member of a group that you will specify as representing the AVAIL Publisher Role. Upon detecting the user is a member of that group, AVAIL will determine if that user is a Publisher in your plan and provide specific claims back to the AVAIL desktop application. If the user is not a member of this AVAIL Publisher AD group, they will default to the Consumer role in AVAIL.

Note, being an Owner of the group does not convey Publisher permissions, the user must be added as a Member.

We recommend creating a dedicated "AVAIL Publishers" group, but it is absolutely acceptable if you already have an existing AD group in mind (such as a "BIM Managers" group). Every organization is just a little bit different, and we're happy to talk through an appropriate configuration for your company.

Creating the AVAIL Publishers Group

To view or add the groups within your Azure Active Directory Portal:

1. Select the **Azure Active Directory** menu option in the left navigation menu, then select the **Groups** option in the second column.

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+ FAVORITES	Settings	NAME	OBJECT ID	GROUP TYPE	MEMBERSHIP TYPE	EMAIL	SOURCE
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Virtual machines	Audit logs						
💠 Load balancers	Troubleshooting + Support						
Storage accounts	X Troubleshoot						
💮 Virtual networks	New support request						
Azure Active Directory							
Monitor							
🌳 Advisor							
Security Center							
Cost Management + Billing							
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2. Click the **+ New group** option.

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3. In the **New Group** form, enter the following values:

Group type	Security
Group name	AVAIL Publishers
Group description	"Publishers of the AVAIL Application"
Membership type	Assigned

To add existing users and/or groups to the AVAIL Publishers group, select the **Members** option in the form. Once added, click the **Select** button.

Add members - Microsoft Azure	× (+	- o x
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 Assigned
 🤣 Function App \sim Azure AD Application Proxy 🗟 SQL databases Owners 0 1 members selected > 🖉 Azure Cosmos DB Azure Cost Management XCloud **Q** Virtual machines Members 0 > Azure DevOps 4 Load balancers 🧮 Storage accounts Selected members: Virtual networks Azure Active Directory BM BIM Managers Remove Monitor 🔶 Advisor Security Center O Cost Management + Billing 🗿 Help + support Create Select
- 4. Click the blue **Create** button to finish creating the group.

Submit Information to AVAIL

You have completed all the necessary steps for the registration of the AVAIL application in your Azure Active Directory Portal. In this section, you will need to share some information with AVAIL regarding the application registration that you have just completed.

There are five values associated with your Azure Active Directory and the AVAIL registered application that you will need to submit: <u>Tenant ID</u>, <u>Application ID</u>, <u>Object ID</u>, <u>SAML-P Sign-On Endpoint</u>, and <u>Publisher Group Object ID</u>. If you need assistance in locating these values, the sections in this chapter will guide you.

Please fill in the information located in the form linked below. Once you have submitted the form, await confirmation from a member of the AVAIL Support team before continuing to the <u>Installing AVAIL</u> chapter of this instruction document.

Azure Active Directory Information Form

Tenant ID

To locate the **Tenant ID** of your Active Directory:

- 1. Select **Azure Active Directory** from the main navigation menu
- 2. Select the **Properties** option from the menu in the second column.
- 3. In the Properties area, copy the **Tenant ID** that is listed by clicking the blue copy button and paste it into the <u>form</u>.

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Note: Directory ID (pictured below) is now called Tenant ID

Application ID

To locate the **Application ID** of the AVAIL application:

- 1. Select App Registrations in the left navigation menu
- 2. Select the **AVAIL** application row to display the properties slideout region on the right.
- 3. In the application slide-out region, copy the value of the Application ID listed and paste it into the <u>form</u>.
 - Note: Remain in this view for the Object ID.



Object ID

To locate the **Object ID** of the AVAIL application:

- 1. Select **App Registrations** in the left navigation menu.
- 2. Select the **AVAIL** application row to display the properties slideout region on the right.
- 3. In the application slide-out region, copy the value of the Application ID listed and paste it into the <u>form</u>.

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SAML-P Sign-On Endpoint

To locate the SAML-P Sign-On Endpoint:

- 1. Select **App Registrations** in the left navigation menu.
- 2. Select the **Endpoints** button located at the top of the application list. A slide-out region will display on the right listing available endpoints.

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SQL databases	Roles and administrators	AV AVAIL	00aa65a9-5fb5-4f72-937c-9a844cdeea05	5/29/2019	
Azure Cosmos DB	Enterprise applications				
Virtual machines	Devices				
Load balancers	App registrations				
Storage accounts	App registrations (Legacy)				
 Virtual networks 	Identity Governance				
Azure Active Directory	Application proxy				
Monitor	🔓 Licenses				
n Advisor	Azure AD Connect				
Security Center	🕞 Custom domain names				
Cost Management + Billing	Mobility (MDM and MAM)				
Help + support	Password reset				
	Company branding				
	User settings				
	Properties				
	Notifications settings				
	Security				
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https://aka.ms/AppRegistrationsGuide					

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3. Click the blue copy button to copy the **SAML-P SIGN-ON ENDPOINT** value and paste it into the <u>form</u>.

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All resources	Manage		https://login.microsoftonline.com/4f4fc943-0539-4723-91d9-7c0ff4a06a83/oauth2/authorize
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S App Services	🝰 Groups		https://login.microsoftonline.com/4f4fc943-0539-4723-91d9-7c0ff4a06a83/oauth2/token
Function App	Organizational relationships	DISPLAY NAME APPLICA	OpenID Connect metadata document
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🖉 Azure Cosmos DB	Enterprise applications		Microsoft Graph API endpoint
👤 Virtual machines	Devices		https://graph.microsoft.com
💠 Load balancers	App registrations		Federation metadata document
Storage accounts	App registrations (Legacy)		https://login.microsoftonline.com/444/c943-0539-4723-91d9-7c0ff4a06a83/federationmetadata/2007-06/federationmetadata.xml
Virtual networks	Identity Governance		WS-Federation sign-on endpoint
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Help + support	Password reset		
	Company branding		
	User settings		
	Properties		
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Publisher Group Object ID

The **Publisher Group Object ID** is the identifier of the Active Directory group that will be used by AVAIL's web services to determine if a user within your plan has publishing privileges. If you have not created or determined what group will be the AVAIL Publisher group, please read the <u>AD Group Memberships & the AVAIL Publisher Role</u> section in this document.

To access the **Object ID** of the Publisher Group:

- 1. Click the Azure Active Directory menu option in the left navigation menu
- 2. Select the **Groups** option in the second column. A list of groups will be listed in the main region of the portal.
- 3. Select the AVAIL Publishers group in the list to view the group's properties.



(continued on next page)

4. Highlight the **Object ID** of this group, then copy and paste it into the <u>form</u>.

AVAIL Publishers - Microsoft Azur	× 🕀								- a x	
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Microsoft Azure			₽ Search resources, s	ervices, and docs		>_	₽ ¢° :	<u>۵</u> ? 🕲	djustice@getavail.com AVAIL SOLUTIONS, INC.	
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Installing AVAIL

NOTE: Before continuing this section, you must provide AVAIL with the necessary values prior to deploying the AVAIL application across your organization. Please fill in the values in the form located in the <u>Submit Information to AVAIL</u> section.

Once you have completed the form, please wait for confirmation from the AVAIL Support team before continuing this instruction document.

Overview

Once you have supplied the necessary values to AVAIL and have received confirmation, you will need to inform your assigned AVAIL Support team member of your preferred method of installation: .msi (<u>MSI Installation</u>) or .exe (<u>EXE Installation</u>). Prior to installing AVAIL on your user's workstations, you will need to configure your software deployment process to include specific installer switches.

During installation, the switches defined in the sections of this chapter will create a special configuration file titled **ADFS.config** on each workstation. This file is critical for providing the AVAIL desktop application with special values for authenticating users through your Active Directory. You will need the values for the **Application ID** and the **SAML-P Sign-On Endpoint** that you found earlier in the <u>Submit Information to AVAIL</u> chapter.

It is highly recommended that you first perform a test installation with the defined installer switches prior to deploying AVAIL. In the sections below, there are examples provided which will show you how to install via command line.

EXE Installation

AVAILInstaller.exe

This file packages the AVAIL Desktop application and the Microsoft Visual C++ 2015 Redistributable (x64) into a single installer. The switches below are the values written in the <u>ADFS.config file</u> upon installing AVAIL.

Switches

- DisableUpdates=1
- ActiveDirectory=1
- ActiveDirectoryVersion="ADFS3"
- ActiveDirectoryAuthority="[Your SAML-P Sign-On Endpoint]"
- ActiveDirectoryRealm="[Application ID]"
- ActiveDirectoryClientId="[Application ID]"
- ActiveDirectoryRedirectUri="https://getavail.com"

Example

```
C:\>"C:\AvailInstaller.exe" /i /quiet /norestart DisableUpdates=1 ActiveDirectory=1
ActiveDirectoryVersion="ADFS3"
ActiveDirectoryAuthority="https://login.microsoftonline.com/4c5bf2ea-7b9d-4fff-ab3a
-5182900cab07/saml2" ActiveDirectoryRealm="42fc3910-509f-4b8f-b023-b417a855c526"
ActiveDirectoryClientId="42fc3910-509f-4b8f-b023-b417a855c526"
ActiveDirectoryRedirectUri="https://getavail.com"
```

MSI Installation

In order to properly install the AVAIL application via MSI installation, you will need to deploy one .exe installer and one .msi installer in the following order:

- 1. vc_redist.x64.exe (optional, see below)
- 2. Avail.msi

1. vc_redist.x64.exe

The *vc_redist.x64.exe* file is the Microsoft Visual C++ 2015 Redistributable (x64) and installs run-time components of Visual C++ libraries. These components are required to run C++ applications that are developed using Visual Studio 2015 Update 3 RC and link dynamically to Visual C++ libraries.

Note that many modern applications, such as Autodesk Revit® 2018 (or greater), also require the Microsoft Visual C++ Redistributable package and a supported newer version **may already be installed**.

Switches

• /i /quiet /norestart

Example

C:\>"C:\vc_redist.x64.exe" /i /quiet /norestart

2. AVAIL.msi

The *Avail.msi* is the installer for the AVAIL Desktop application. The switches below are the values written in the <u>ADFS.config file</u> upon installing AVAIL.

Switches

- DISABLEUPDATES=1
- ACTIVEDIRECTORY=1
- AD_VERSION="ADFS3"
- AD_AUTHORITY="[Your SAML-P Sign-On Endpoint]"
- AD_REALM="[Your Application ID]"
- AD_CLIENT_ID="[Your Application ID]"
- AD_REDIRECT_URI="https://getavail.com"

Example

C:\>msiexec.exe /i "C:\Avail.msi" /quiet /norestart DISABLEUPDATES=1 ACTIVEDIRECTORY=1 AD_VERSION="ADFS3" AD_AUTHORITY="https://login.microsoftonline.com/4c5bf2ea-7b9d-4fff-ab3a-5182900cab0 7/saml2" AD_REALM="42fc3910-509f-4b8f-b023-b417a855c526" AD_CLIENT_ID="42fc3910-509f-4b8f-b023-b417a855c526" AD_REDIRECT_URI="https://getavail.com"

The ADFS.config file

After installing with the switches defined (either msi or exe), a special configuration file titled **ADFS.config** will be created on each workstation. This file is located in the same install location as the AVAIL.exe application (C:\Program Files\AVAIL). This file is a crucial component for providing the AVAIL desktop application with special values for authenticating users via your Active Directory.

Example

A proper, Azure-based ADFS.config file should look something like this:

```
<adfsSettings>

<add key="ActiveDirectoryVersion" value="ADFS3"/>

<add key="ActiveDirectoryAuthority" value="[Your SAML-P Sign-on Endpoint]"/>

<add key="ActiveDirectoryRealm" value="[Your Application ID]"/>

<add key="ActiveDirectoryClientId" value="[Your Application ID]"/>

<add key="ActiveDirectoryRedirectUri" value="https://getavail.com"/>

</adfsSettings>
```

Support

Have a question?

Email us at support@getavail.com or call us at +1 859-963-1616

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