

Active Directory Schema Extensions

ABSTRACT

This article describes how you can leverage the SalesTim platform to create naming conventions and audience targeting rules based on user profiles Active Directory schema extensions (aka **extension attributes**).

This article only applies to **Azure Active Directory Schema Extensions**, that are different from the Microsoft Graph specific **Open extensions** and **Schema extensions**. To learn more about Microsoft Graph extensions, see [Add custom data to resources using extensions](#).

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Understanding Extension Attributes

Azure AD extension attributes may be accessed from two different locations depending on their origin: 1. Synchronized from an on-premises Active Directory. See [On-premises Extension Attributes](#). 2. Managed by an application. See [Application-managed Extension Attributes](#).

On-premises Extension Attributes

On-premises extension attributes are synchronized with Azure Active Directory from an on-premises Active Directory.

These extension attributes are also known as **Exchange custom attributes 1-15**, and can also be accessed from the Microsoft 365 Exchange Admin UI as mailbox properties.

On-premises extension attributes may be accessed from the `onPremisesExtensionAttributes` property of the user profile. This property is comprised of fifteen custom extension attribute properties:

```
{
  "@odata.context": "https://graph.microsoft.com/beta/$metadata#users/$entity",
  "id": "e463251c-f0c1-42ce-a8f0-e09f89895323",
  ...
  "onPremisesExtensionAttributes": {
    "extensionAttribute1": "REDACTED",
    "extensionAttribute2": "REDACTED",
    "extensionAttribute3": "REDACTED",
    "extensionAttribute4": "REDACTED",
    "extensionAttribute5": "REDACTED",
    "extensionAttribute6": null,
    "extensionAttribute7": "M",
    "extensionAttribute8": "10/03/1982",
    "extensionAttribute9": null,
    "extensionAttribute10": "REDACTED",
    "extensionAttribute11": null,
    "extensionAttribute12": null,
    "extensionAttribute13": null,
    "extensionAttribute14": null,
    "extensionAttribute15": null
  }
}
```

To see the available extensions in your tenant, you can use this [link](#) from the Microsoft Graph Explorer that list all the user profile properties for the current user.

::: tip Note For an `onPremisesSyncEnabled` user, the source of authority for this set of properties is the on-premises Active Directory which is synchronized to Azure AD, and is read-only. For a cloud-only user (where `onPremisesSyncEnabled` is false), these properties may be set during creation or update. :::

Usage example in naming conventions and audience targeting:

```
user.onPremisesExtensionAttributes.extensionAttribute10
```

Application-managed Extension Attributes

Application-managed extension attributes may be accessed from the root of the user profile:

```
{
  "@odata.context": "https://graph.microsoft.com/beta/$metadata#users/$entity",
  "id": "e463251c-f0c1-42ce-a8f0-e09f89895323",
  ...
  "extension_e3049e305790413ca1b11bb53526f057_extensionAttribute10": "REDACTED"
}
```

These attributes are named by using the convention `extension_<extensions-app-id>_attributename`, and note that the `<extensions-app-id>` is specific to each tenant.

Usage example in naming conventions and audience targeting:

```
user.extension_e3049e305790413ca1b11bb53526f057_extensionAttribute10
```

To see the available extensions in your tenant, you can use this link from the Microsoft Graph Explorer that list all the user profile properties for the current user.