

ADFS Server Setup Documentation



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1. Introduction

This document outlines configuring ADFS Server Settings for use in ServicePRO.

Active Directory Federation Service (ADFS) is a software component provided by Microsoft that allows for login using active directory credentials.

From Microsoft's Developer Network page on AD FS:

AD FS is a standards-based service that allows the secure sharing of identity information between trusted business partners (known as a federation) across an extranet. When a user needs to access a Web application from one of its federation partners, the user's own organization is responsible for authenticating the user and providing identity information in the form of "claims" to the partner that hosts the Web application. The hosting partner uses its trust policy to map the incoming claims to claims that are understood by its Web application, which uses the claims to make authorization decisions.

2. ADFS Server Settings – Server, End Points and Claims

The following items need to be configured as a prerequisite for single-sign on (SSO) using ADFS:

- A Windows Server 2012 or Windows Server 2012 R2
- 2. Active Directory present, where each user has an email address attribute
- 3. A Service Socket Layer (SSL) certificate, used for communications between federation servers and clients
- 4. Certificate fingerprint
- 5. DNS entry configured for the federation server
- 6. IIS server installed

Configuring ADFS

For instructions on configuring the ADFS, please refer to Microsoft's Developer Network page on Deploying and Configuring AD FS.

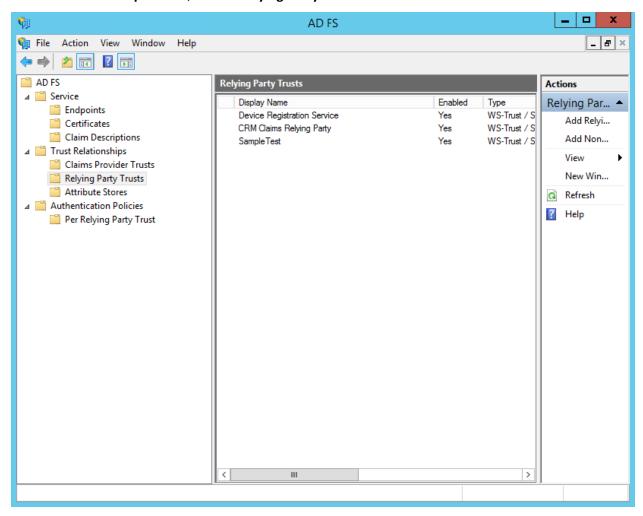
When the ADFS is fully configured, open the "AD FS Management" console from the installed programs.



A. Instructions for Adding Relying Party Trust

Step 1: Trust Relationships Node - Relying Party Trust Node

In the "Trust Relationships" node, select "Relying Party Trust".

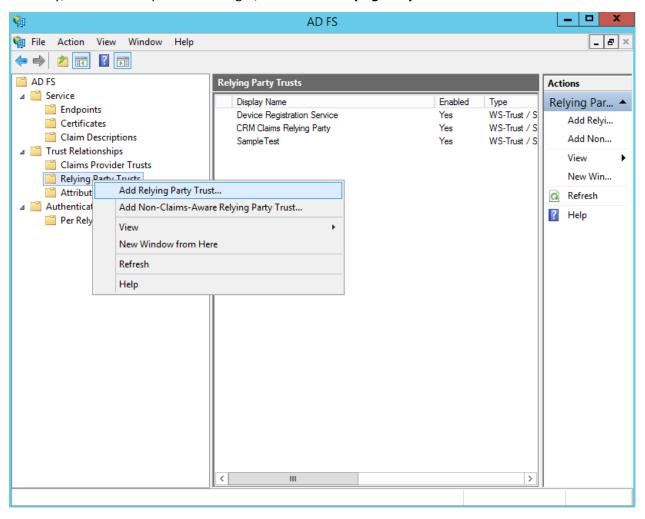




Step 2: Add Relying Party Trust

Right-click on an item under "Trust Relationships" and select "Add Relying Party Trust..."

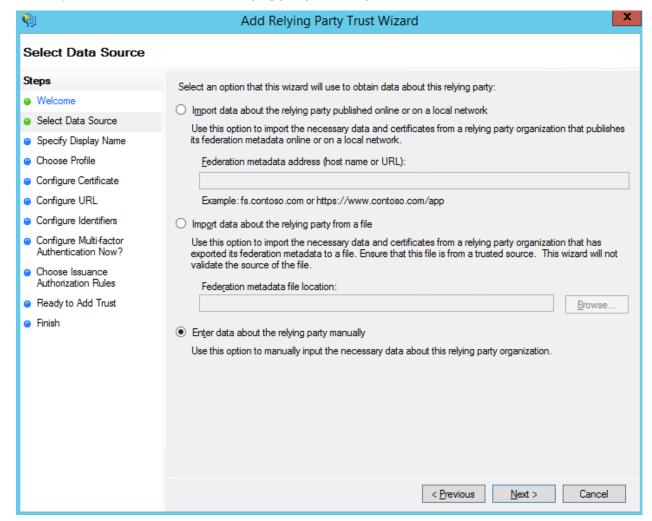
Alternatively, in the actions pane on the right, select "Add Relying Party trust".





Step 3: Select Data Source

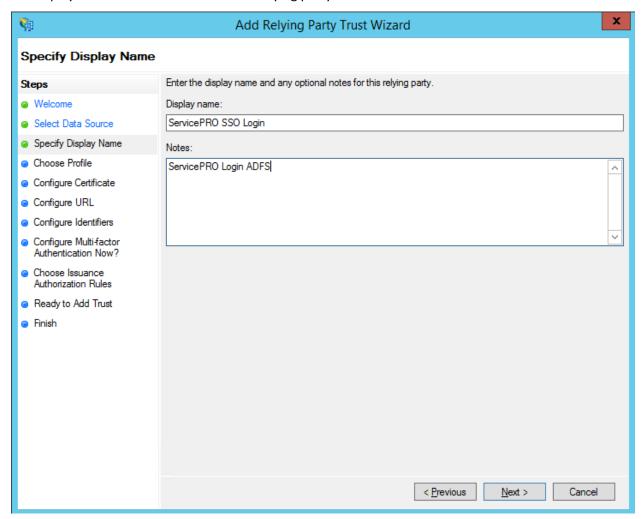
Select the option "Enter Data about the relying party manually".





Step 4: Specify Display Name

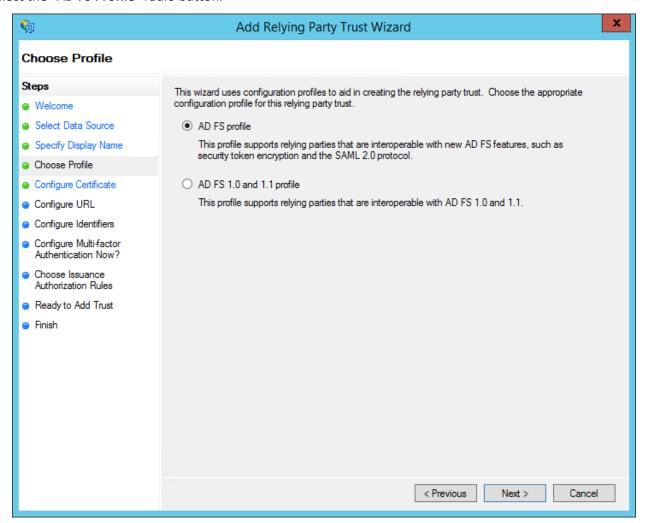
Enter a *Display name* and write notes for the relying party.





Step 5: Choose Profile

Select the "AD FS Profile" radio button.

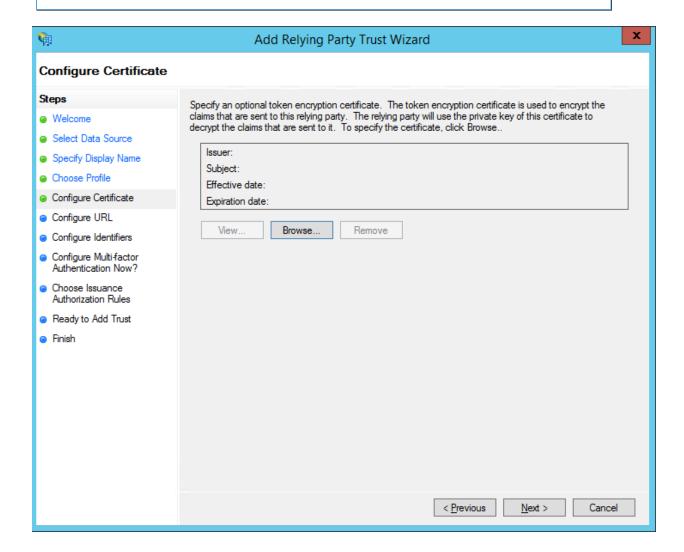




Step 6: Configure Certificate

Select "Next".

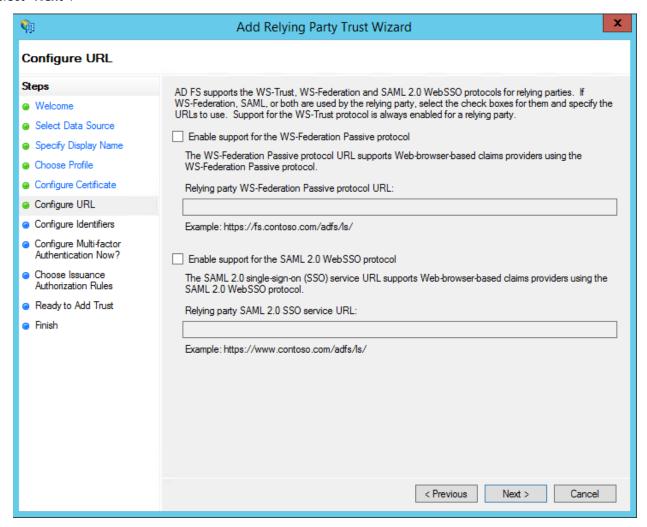
NOTE: Do not select a token encryption certificate. Defining a certificate here will prevent proper communication with ServicePRO.





Step 7: Configure URL

Select "Next".



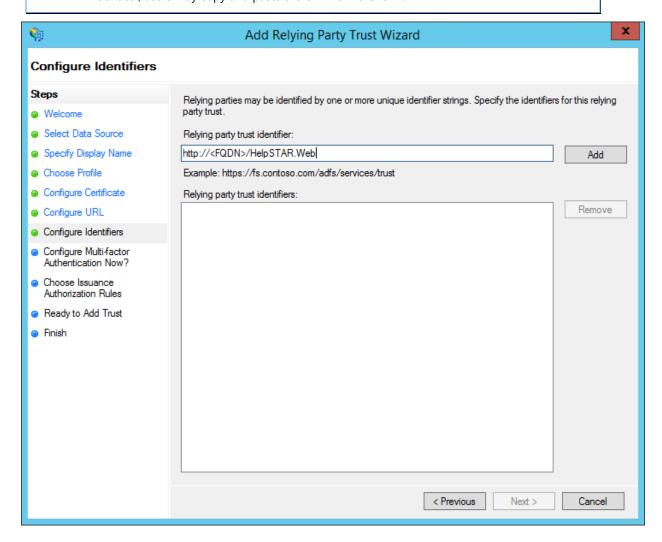


Step 8: Configure Identifiers

Enter the *Relying party trust identifier* (replace <FQDN> with domain information), and select the "**Add**" button.

NOTE:

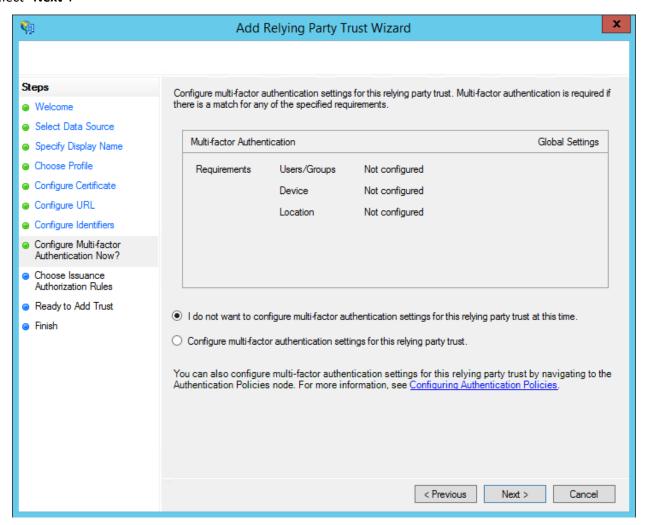
Relying party trust Identifier URLs must be identical to the URLs displayed on the ServicePRO endpoint configuration form when added to ADFS (including case sensitivity). To ensure it is identical, users may copy and paste the URL from the form.





Step 9: Configure Multi-Factor Authentication Now?

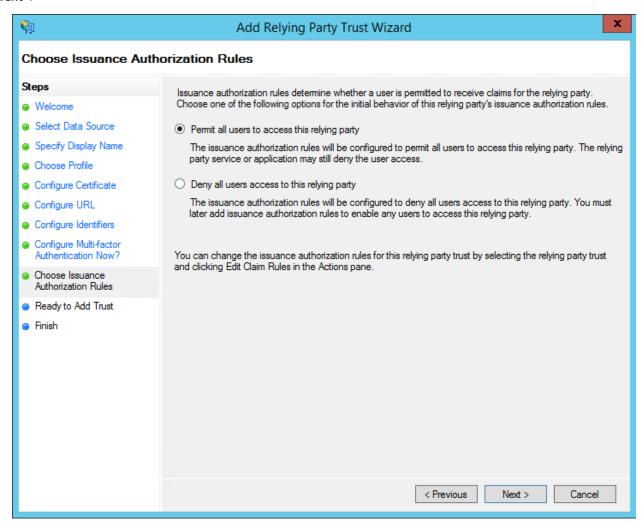
Select "Next".





Step 10: Choose Issuance Authorization Rules

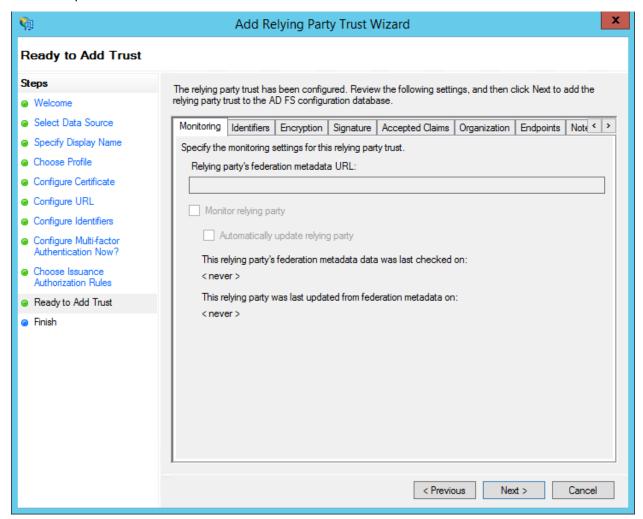
Leave the default selected radio button to "Permit all users to access the relying party" and select "Next".





Step 11: Ready to Add Trust

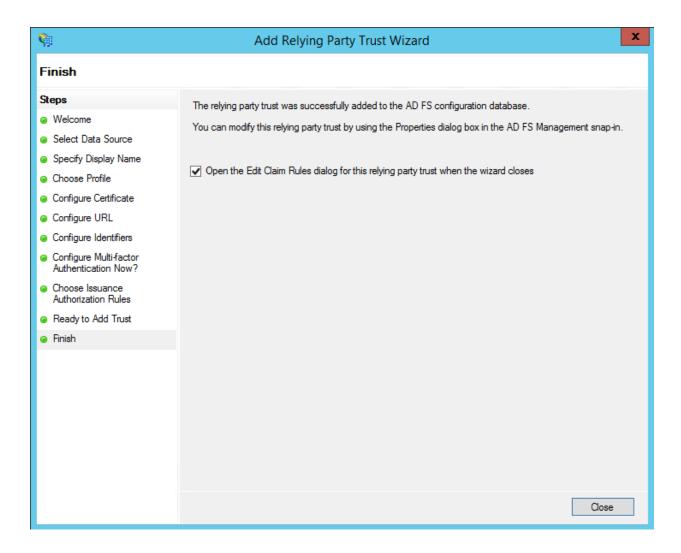
Review the steps and select "Next".



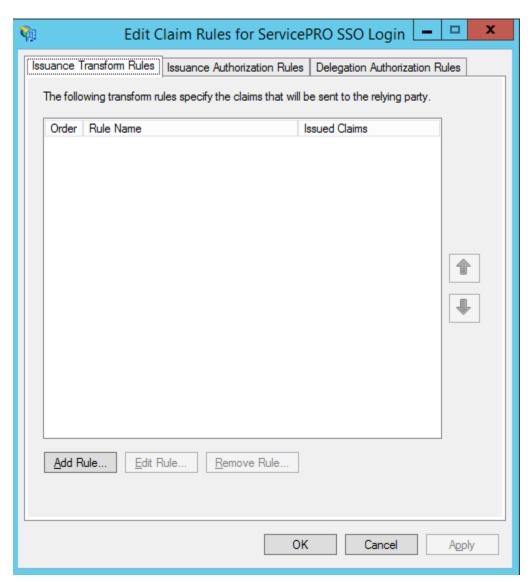


Step 12: Finish

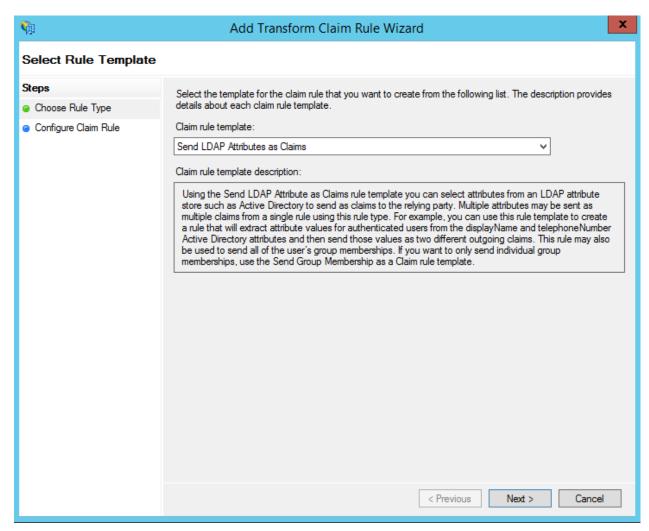
Select the checkbox to open the Edit Claim Rules dialog after closing this wizard.



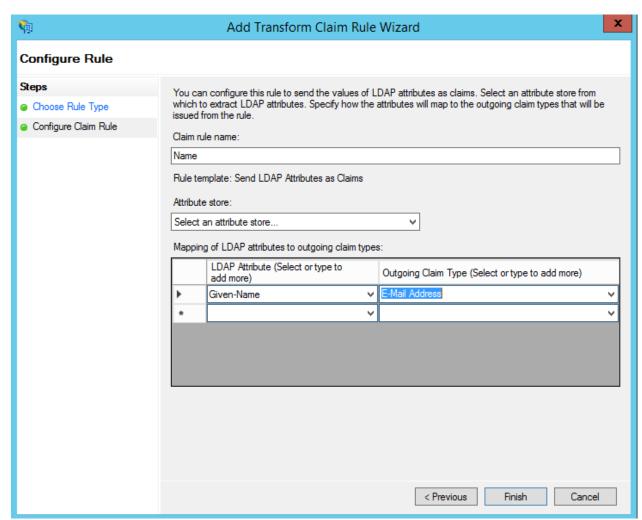












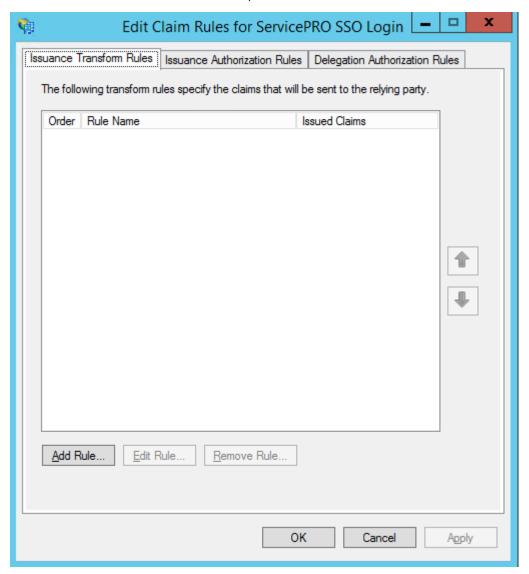


B. Creating Claims

After the Relying Party Trust has been successfully added, create claims that each partner understands and appropriately mapped in the AD FS trust policy for exchange between federation partners.

Step 1: Edit Claim Rules for ServicePRO SSO Login

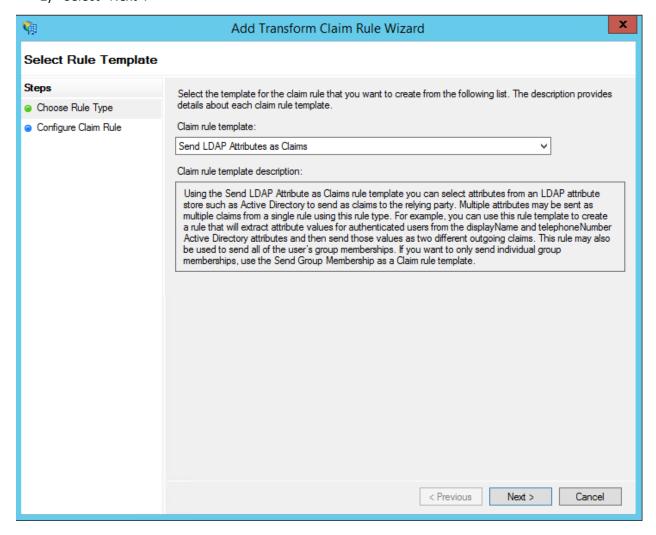
Under the Issuance Transform Rules tab, select "Add Rule..."





Step 2: Add Transform Claim Rule Wizard

- 1) Under the "Claim rule template" dropdown, select "Send LDAP Attributes as Claims".
- 2) Select "Next".





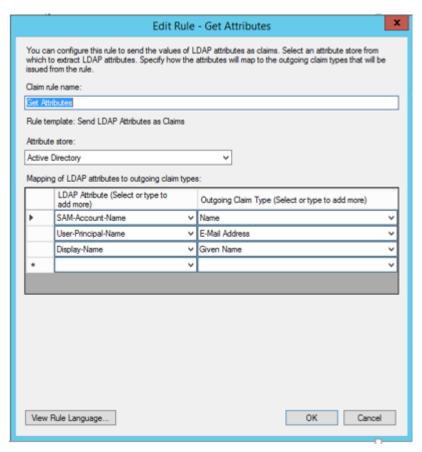
Step 3: Edit Rule – Get Attributes

Enter a name for "Claim rule name".

In the Attribute store dropdown menu, select "Active Directory".

In the Grid for "Mapping of LDAP attributes to outgoing claim types":

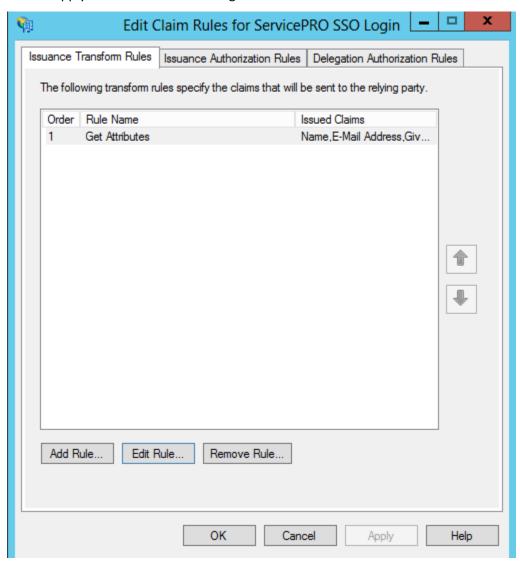
- 1. Select "SAM-Account-Name" from the dropdown list, and in the outgoing claim type, select "Name".
- 2. Select "User-Principal Name" from the dropdown list, and in the outgoing claim type, select "E-mail Address".
- 3. Select "Display Name" from the dropdown list, and in the outgoing claim type, select "Given Name".





Step 4: Edit Claim Rules for ServicePRO SSO Login

Select "Apply" and "OK" to save changes.





3. Minimum Claims to be configured for successful ADFS SSO authentication

The following are the minimum claims needed to be configured for successful ADFS SSO authentication:

- 1. LDAP Attribute -> Outgoing Claim
- 2. SAM-Account-Name -> Name,
- 3. User-Principal-Name -> Email Address,
- 4. Display-Name -> Given Name.

4. Active Directory Fields mapping to Claims

Active Directory Field	ADFS Claim
Mail	emailaddress
Name	name
givenName	givenname
telephoneNumber	homephone
Pager	otherphone
Mobile	mobilephone
Department	AD Sync selected

5. Resources

- 1. For more details on the types of claim rules:
 - https://technet.microsoft.com/en-us/library/ee913563(v=ws.11).aspx
- 2. For more details on the role of claims:
 - https://technet.microsoft.com/en-us/library/ee913589(v=ws.11).aspx
- 3. [Internal] To Configure ADFS:
 - https://seroter.wordpress.com/2013/04/22/using-active-directory-federation-services-to-authenticate-authorize-node-js-apps-in-windows-azure/
- 4. Steps to configuring ADFS (end to end):
 - https://blogs.technet.microsoft.com/canitpro/2015/09/11/step-by-step-setting-up-ad-fs-and-enabling-single-sign-on-to-office-365/
- 5. Troubleshooting steps to be followed:
 - https://technet.microsoft.com/en-us/library/adfs2-troubleshooting-things-to-check(v=ws.10).aspx