

## Setting up Single Sign On

last updated for the Summer 2016 release

Technical Guide



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Please ensure that you include the document name, version and aspect of documentation on which you are commenting.

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# 01 / Introduction

This document details the configuration changes that must be made in order to use One Single Sign On (SSO) in a v4 environment. There are four areas in which you need to make changes:

- The SSO authentication website/server.
- The application server website/server.
- Your client machine.
- Active Directory Federation Services (ADFS).

## Example Environment

This document details SSO configuration in an example v4 environment with the following settings. You must adjust the values to suit your own One server environment.

- The **domain name** is `LAB-LA02.COM`.
- The **SSOAuthentication** website is installed on a machine with the name `LAB-ONEALL.LAB-LA02.COM`
- The **SSOAuthentication URL** is `https://LAB-ONEALL/SSOAuthentication/`
- The **AppServer, Session Server, Report Server and CCS Enterprise Online** are installed on a machine with the name `LAB-DEV01.LAB-LA02.COM`
- The **Application Server URL** is `https://LAB-DEV01/CCSEnterprise_ApplicationService_Debug358/`
- The **CCS Enterprise Online URL** is: `https://LAB-DEV01/CCSEnterprise.RIA.WEB358/`
- The **Exclusion App URL** is: `https://LAB-DEV01/CCSEnterpriseExclusion/`
- The **ADFS server** is installed on a machine with the name `LAB-DC8R26401.LAB-LA02.COM`
- The **ADFS URL** is `https://adfs.lab-la02.com/adfs`
- To check if ADFS is working you can use `https://adfs.lab-la02.com/adfs/ls/IdpInitiatedSignon.aspx`

## 02 / Installing the SSO Authentication Website

### Introduction

This chapter details the installation the SSO authentication website. After installing the website, you must enter the details into the **SSO Authentication** tab of the CCS Enterprise Server Configuration utility.

**IMPORTANT NOTE:** After configuring your One environment to use SSO, you should direct end users to access v4 Online Silverlight modules via the new SSO website URL instead of the existing v4 Online Silverlight URL. If users access the existing v4 Online Silverlight URL, they will have to enter their One user credentials to log in.

### Prerequisites for the SSO website

An existing One infrastructure is required, including an application server. You can install the SSO website on any server in your environment.

#### 02.1 Create an application pool

The SSO website should be run within its own application pool.

On the server that will host the SSO website, add an application pool with the following settings:

- **Name:** This can be any valid name, but you should write it down as it will be required later.
- **.NET framework version:** 4.0
- **Managed pipeline mode:** Integrated.
- **Identify:** NetworkService

In advanced settings for the application pool, enter the following value:

- **IdleTime-out:** 480
- **Identity:** NetworkService

#### 02.2 Install the SSO website

Install the website by running the SSOAuthenticationSetup.msi. You will be prompted for the following information

- Select IIS Destination page:
  - **Site:** typically **Default Web Site**
  - **Virtual Directory:** typically **SSOAuthentication**.
  - **Application Pool:** The application pool created in step 2.1.



# 03 / Configuring the SSO Authentication Website

## Settings

This chapter details the settings for the SSO authentication website. These settings are entered on the **SSO Authentication** tab of the CCS Enterprise Server Configuration utility.

The screenshot shows the 'SSO Authentication' tab in the 'Lapco Emerson Service Enterprise Server Configuration Utility'. The 'SSO Authentication List' section is active, showing a single entry for 'SSOAuthentication'. Below this, the '01. SSO Authentication Settings' section contains several fields:

- Application Server URL:** https://lab-dev01/CCSEnterprise\_ApplicationService\_Debug358/
- Application Server Audience URL:** https://lab-dev01/CCSEnterprise\_ApplicationService\_Debug358/MVC/Services/
- Silverlight App URL:** https://lab-dev01/CCSEnterprise\_RIA\_WEB358/
- Audience URL:** https://lab-oneall/SSOAuthentication
- ADFS Identifier:** https://adfs.lab-la02.com/adfs/services/trust
- ADFS Signing Certificate Thumbprint:** 442ddea1217d27e292170570b0f0e737e15a2
- ADFS Certificate Validation Mode:** ChainTrust

- **Application Server URL:** You must provide a valid application server URL.

The URL for the example environment is

`https://LAB-DEV01/CCSEnterprise_ApplicationService_Debug358/`

- **CCS Enterprise Online URL:** You must provide a valid URL for CCS Enterprise Online.

The URL for the example environment is

`https://LAB-DEV01/CCSEnterprise.RIA.WEB358/`

- **Exclusion App Url:** You must provide a valid URL for Exclusion App in the following format.

`https://[Web Server]/[Exclusion WebSite]/Login.aspx`

The URL for the example environment is

`https://LAB-DEV01/CCSEnterpriseExclusion/Login.aspx`

- **Audience URL:** This is the base URL for the current SSOAuthentication website.

It must be in the following format: `https://[WebServer]/SSOAuthentication`

It must also match the **Relying Party Identifier**. For more information on relying parties, see [Appendix – Obtaining ADFS Details](#) on page 28.

The URL for the example environment is `https://LAB-ONEALL/SSOAuthentication`

- **ADFS Identifier:** You must provide an ADFS identifier in the following format:

`https://[ADFS]/adfs/services/trust`

For information on finding the ADFS identifier, see [Appendix – Obtaining ADFS Details](#) on page 28.

The identifier for the example environment is

`https://adfs.lab-la02.com/adfs/services/trust`

- **Thumbprint:** This is the thumbprint of the certificate used by ADFS to sign the token. For information on how to obtain the correct thumbprint, see [Appendix – Obtaining ADFS Details](#) on page 28.
- **Certificate Validation Mode:** This option is used to determine the validity of the certificate that is used by ADFS to sign the token. Select one of the following values:
  - **ChainTrust:** The certificate is valid if the chain builds to a certification authority in the trusted root store.

**NOTE:** The certificate must meet the following requirements in order for you to use the **ChainTrust** option.

- The certificate must be issued from a CA in Capita's trusted CA list (in the machine certificate store).
- The intended purpose of that CA must include **Client Authentication**.

- **PeerOrChainTrust:** The certificate is valid if it is in the trusted people store, or if the chain builds to a certification authority in the trusted root store.
- **PeerTrust:** The certificate is valid if it is in the trusted people store.
- **None:** The certificate is not validated.

By default, the certificate validation mode is set to **None**. If this setting is changed, you must install the ADFS certificate (public key only).

- **Application Server Audience URL:** This is the URL of the application server website. It must be in the following format:

`https://[AppServer]/WCFServices/AuthenticationService.svc`

It must also match the **Audience URL** in the application server configuration.

The correct URL for the example environment is `https://LAB-DEV01/CCSEnterprise_ApplicationService_Debug358/WCFServices/AuthenticationService.svc`

**NOTE:** You must also install the application server certificate on the SSOAuthentication machine.

## 04 / Configuring Exclusion web site

This chapter details the settings for the Exclusion Portal website. These settings are entered on the **Exclusion Portal** tab of the CCS Enterprise Server Configuration utility.

The screenshot shows the 'Capita Children's Service Enterprise Server Configuration Utility' window. The 'Exclusion Portal' tab is selected in the top navigation bar. Below the navigation bar, the 'Exclusion List' section shows 'Exclusion Portal' set to 'CCSEnterpriseExclusions'. The main configuration area is titled 'C:\inetpub\wwwroot\CCSEnterpriseExclusions\web.config [CCS.Entity.ExclusionPortalConfiguration]'. It contains a 'Save' button and a 'New' button. The '02. Visual Settings' section includes a 'Logo Filename' field, a 'Setup Logo FileName' button, and a 'Logo Alignment' dropdown. Below these are four color selection fields: 'Main Window Colour', 'Main Window Border Colour', 'Main Primary Colour', and 'Main Background Colour', each with a 'Pick Colour' button. The '03. SSO Settings' section has an 'SSO Server' field containing the URL 'https://lab-oneall/SSOAuthentication'. The bottom status bar shows the version '4.360.0.63024'.

■ **SSO Server:** This is the base URL for the current SSOAuthentication website.

It must be in the following format: `https://[WebServer]/SSOAuthentication`

The URL for the example environment is `https://LAB-ONEALL/SSOAuthentication`.

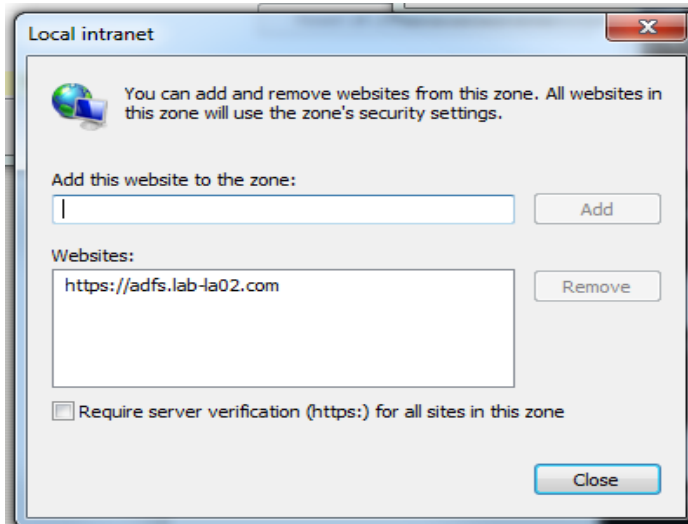


# 05 / Configuring the Client Machine

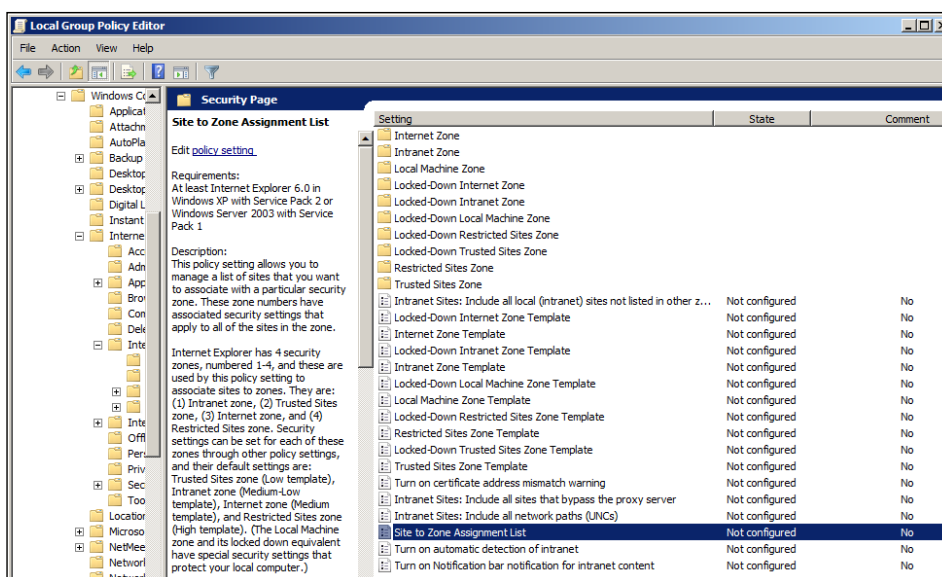
1. If applicable, install the ADFS service certificate on the client machine.

This step is not required if the ADFS certificate is created using a certificate that is already known to the client.

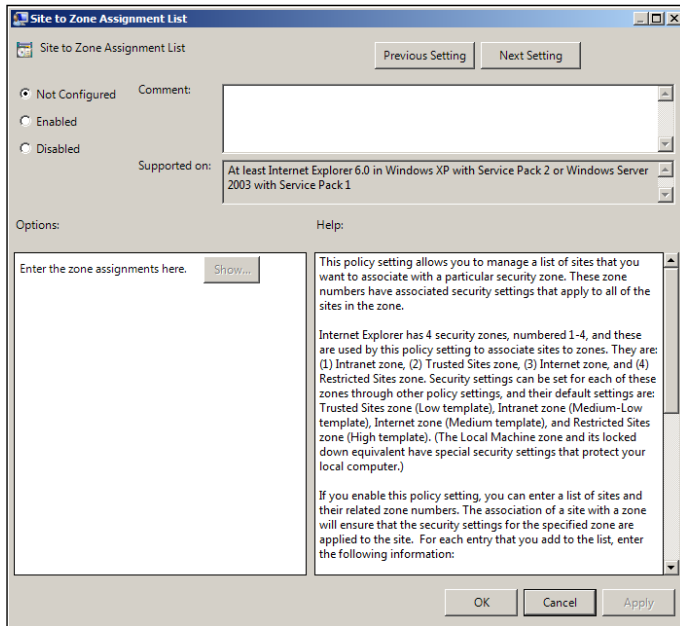
2. If you are prompted for credentials, add the ADFS website to the Intranet websites:
  - a. Open Internet Explorer and select **Internet Options | Security | Sites | Advanced**.



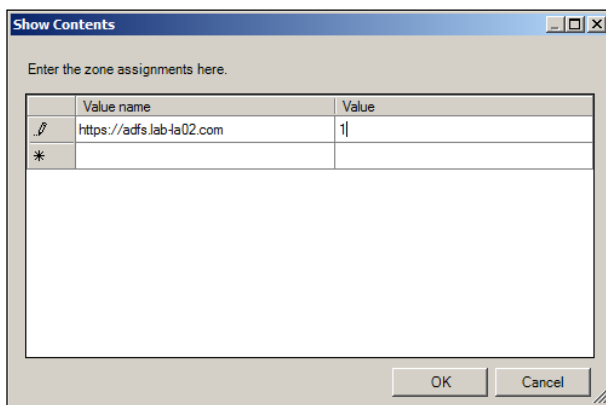
- b. Enter the address of the website into the **Add this website to the zone** field and then click the **Add** button to add that site.
- c. Use Windows Group Policy to add the site URL into the client's Local Intranet Zone:
  - i. Open the Group Policy client and select a policy that applies to authenticated users.
  - ii. Select **User config | Administrative Templates | Windows Components | Internet Explorer | Internet Control Panel | Security Page**.



- iii. Double-click the **Site to Zone Assignment List** button to display properties for that setting.



- iv. Ensure that the **Enabled** radio button is selected and then click the **Show** button to display the **Show Contents** dialog.

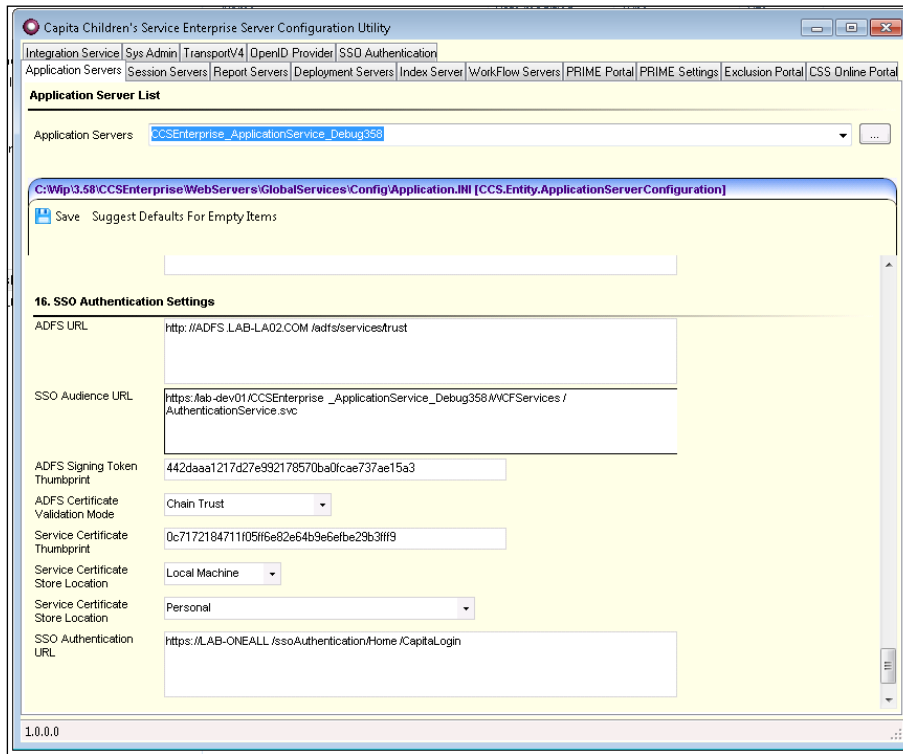


- v. Enter the URL of the site into the **Value Name** field.
- vi. Enter "1" into the **Value** field to assign the site to the Local Intranet Zone.
- vii. Click the **OK** button to close the dialog, and then click **OK** again to save your changes.

In the example environment, the URL `https://adfs.lab-la02.com` was added to the zone.

# 06 / Configuring the Application Server Settings

This section details the settings for the application server. These settings are entered on the **Application Server** tab of the CCS Enterprise Server Configuration Utility.



- **ADFS Identifier:** You must provide the correct ADFS identifier in the following format:  
`https://[ADFS]/adfs/services/trust.`

For information on finding the ADFS identifier, see [Appendix – Obtaining ADFS Details](#) on page 28.

The URL for the example environment is `https://adfs.lab-la02.com/adfs/services/trust`

- **Audience URL:** The **Audience URL** is used by ADFS to identify the application server, and should match the **Relying Party Identifier** as configured in ADFS. It should be entered in the following format:  
`https://[AppServer]/WCFServices/AuthenticationService.svc`

The correct URL for the example environment is `https://LAB-DEV01/CCSEnterprise_ApplicationService_Debug358/WCFServices/AuthenticationService.svc`

- **Thumbprint:** This is the thumbprint of the certificate used by ADFS to sign the token. For information on how to obtain the correct thumbprint, see [Appendix – Obtaining ADFS Details](#) on page 28.
- **Certificate Validation Mode:** This option is used to determine the validity of the certificate that is used by ADFS to sign the token. Select from the following values:
  - **ChainTrust:** The certificate is valid if the chain builds to a certification authority in the trusted root store.

**NOTE:** The certificate must meet the following requirements in order for you to use the **ChainTrust** option.

- The certificate must be issued from a CA in Capita's trusted CA list (in the machine certificate store).
- The intended purpose of that CA must include **Client Authentication**.

- **PeerOrChainTrust:** The certificate is valid if it is in the trusted people store, or if the chain builds to a certification authority in the trusted root store.
- **PeerTrust:** The certificate is valid if it is in the trusted people store.
- **None:** The certificate is not validated.

By default, the certificate validation mode is set to **None**. If this setting is changed, you must install the ADFS certificate (public key only).

- **Service Certificate:** These fields enable you to record information about the certificate that is used by the service to decrypt the incoming request. The following information is required:

- **Thumbprint:** The thumbprint of the certificate used by the WCF authentication service.
- **Folder:** The folder in which the certificate resides.
- **Store Location:** Whether the certificate is a machine / service or a user certificate.

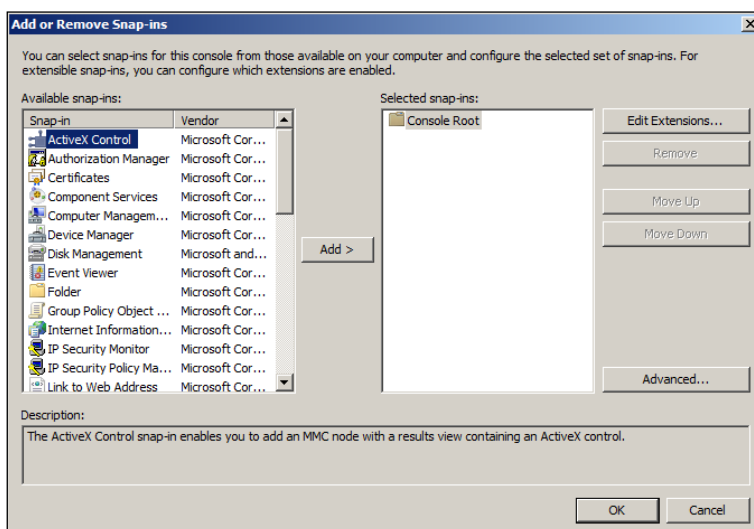
**NOTE:** You must export this certificate and copy it to the ADFS machine. This is required while configuring the application server as a relying party.

- **SSO Authentication URL:** The URL of the SSOAuthentication website. Must be in the following format: `https://[SSOAuthenticationWebServer]/SSOAuthentication/Home/CapitaLogin`

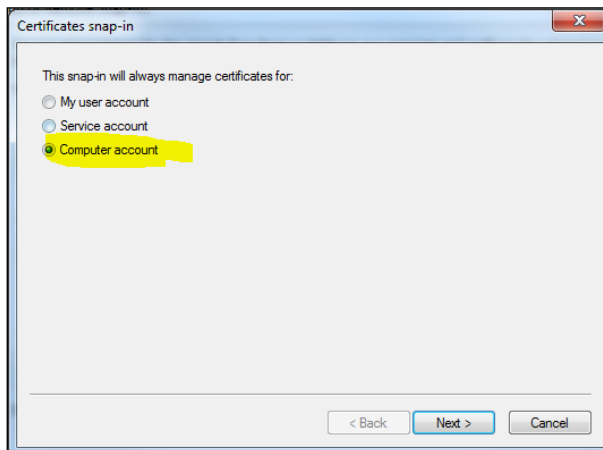
## Granting Permission to Read the Service Certificate's Private Key

You must grant the application pool under which the application server is running read permission for the service certificate's private key. To do so:

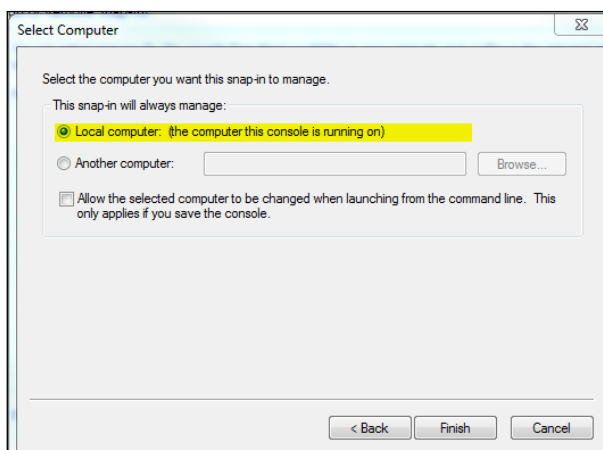
1. Open the Microsoft Management Console
2. Add the Certificates snap-in for your local computer:
  - a. Select **File | Add / Remove Snap-In** to display the **Add or Remove Snap-ins** dialog.



- b. Select **Certificates** from the **Available snap-ins** list and then click the **Add** button to add it to the **Selected Snap-ins** list and display the **Certificates snap-in** dialog.

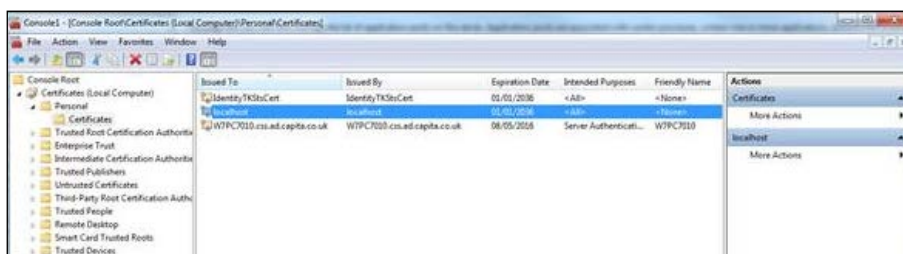


- c. Select the **Computer account** radio button and then click the **Next** button to display the **Select Computer** dialog.

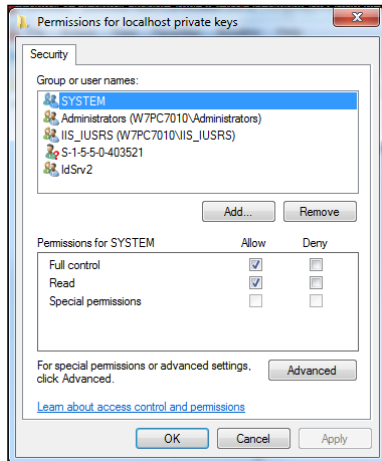


- d. Select the **Local Computer** radio button and then click the **Finish** button to close the **Select Computer** dialog and return to the **Add or Remove snap-ins** dialog.
      - e. Click the **OK** button to close the **Add or Remove snap-ins** dialog and save your changes.
3. Grant permission to the private key:

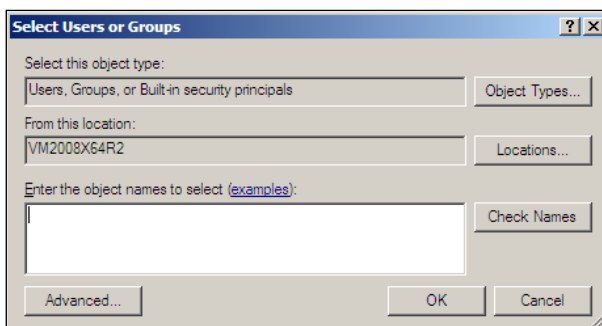
- a. In the left-hand panel, select **Certificates | Personal | Certificates** to display a list of available certificates.



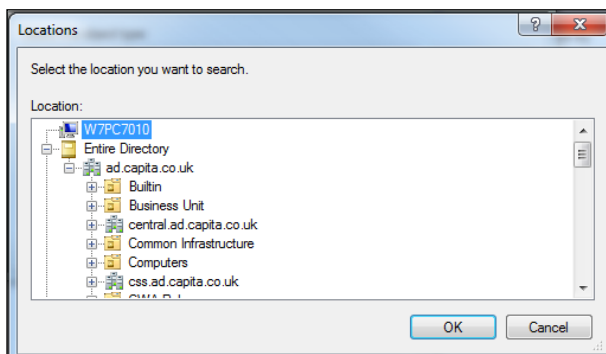
- b. Right-click on the desired certificate and select **All Tasks | Manage Private Keys** to display the **Permissions** dialog.



- c. Click the **Add** button to display the **Select Users or Groups** dialog.



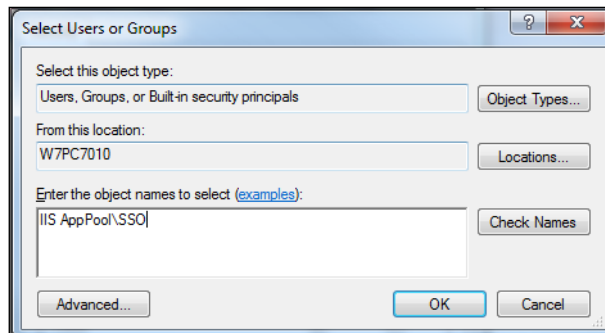
- d. If your application pool is running under the default application pool identity (**AppPoolIdentity**), change the **Location** to your current computer:
- i. Click the **Locations** button to display the **Locations** dialog.



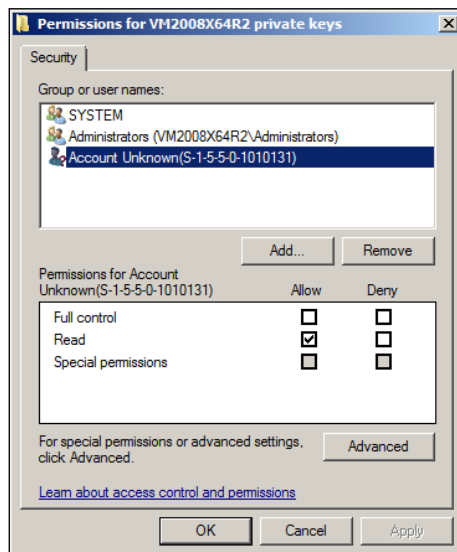
- ii. Highlight the name of your local computer and then click the **OK** button to select that computer and return to the **Select Users or Groups** dialog.
- If your application pool is not running under the default identity, move to step e.
- e. Type the name of your required application pool into the **Enter the object names to select** field in the following format: `IIS AppPool\MyAppPoolName`



## Configuring the Application Server



- f. Click the **Check Names** button to validate the name of the application pool and then click the **OK** button to save your changes and close the **Select users or Groups** dialog. The **Permissions** dialog is displayed.



- g. Select the **Read** permission from the **Allow** column, and ensure that all other check boxes in both columns are deselected. Click **OK** to close the dialog and save your changes.

## 07 / Configuring ADFS

The following ADFS configuration tasks must be undertaken in order to run SSO:

- Adding the SSOAuthentication website as a relying party.
- Adding the application server as a relying party.
- Configuring communication between the SSOAuthentication website and the application server.

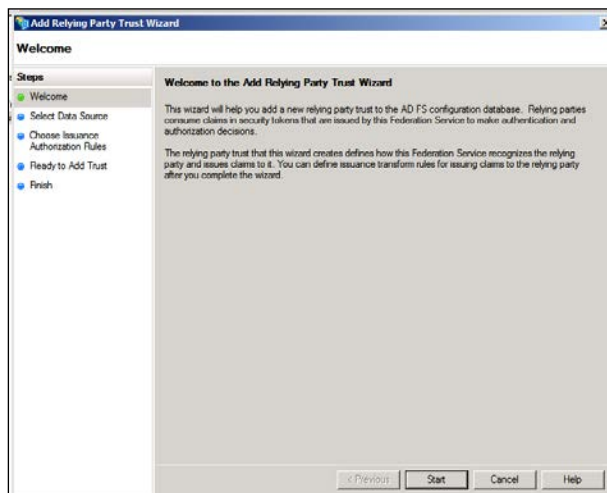
### End Point Enabled on ADFS

Please make sure the following end points are enabled on ADFS:

- /adfs/ls/
- /adfs/services/trust/13/windowstransport
- /adfs/services/trusttcp/windows

### Adding SSOAuthentication as a Relying Party

1. On the ADFS server, run the ADFS Management console.
2. Select **Trust Relationships | Relying Party Trust | Add Relying Party Trust** to display the **Add Relying Party Trust** wizard.



3. Click the **Start** button to run the wizard and display the **Select Data Source** page.

Select an option that this wizard will use to obtain data about this relying party:

☐ Import data about the relying party published online or on a local network  
Use this option to import the necessary data and certificates from a relying party organization that publishes its federation metadata online or on a local network.  
Federation metadata address (host name or URL):  
  
Example: fs.contoso.com or https://www.contoso.com/app

☐ Import data about the relying party from a file  
Use this option to import the necessary data and certificates from a relying party organization that has exported its federation metadata to a file. Ensure that this file is from a trusted source. This wizard will not validate the source of the file.  
Federation metadata file location:

☒ Enter data about the relying party manually  
Use this option to manually input the necessary data about this relying party organization.

< Previous   Next >   Cancel   Help

4. Select the **Enter data about the relying party manually** radio button and then click the **Next** button to display the **Specify Display Name** page.

**Add Relying Party Trust Wizard**

**Specify Display Name**

Steps

- Welcome
- Select Data Source
- Specify Display Name**
- Choose Profile
- Configure Certificate
- Configure URL
- Configure Identifiers
- Choose Issuance Authorization Rules
- Ready to Add Trust
- Finish

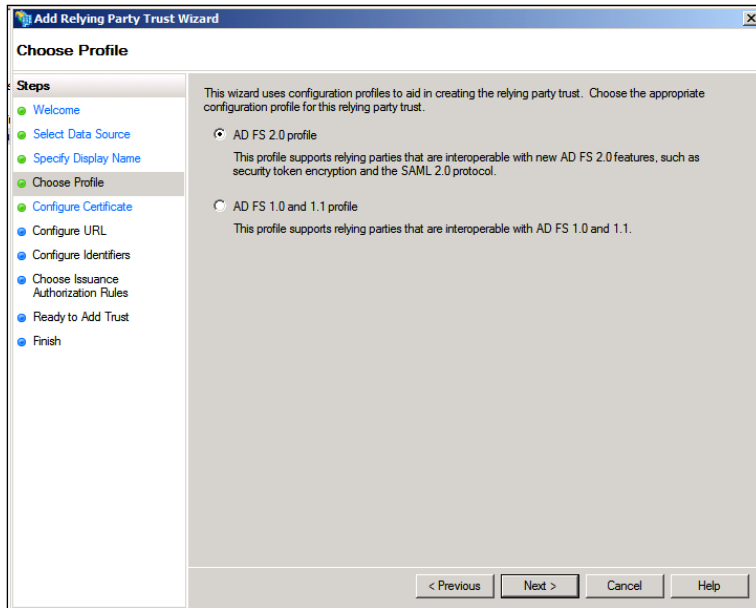
Type the display name and any optional notes for this relying party.

Display name:

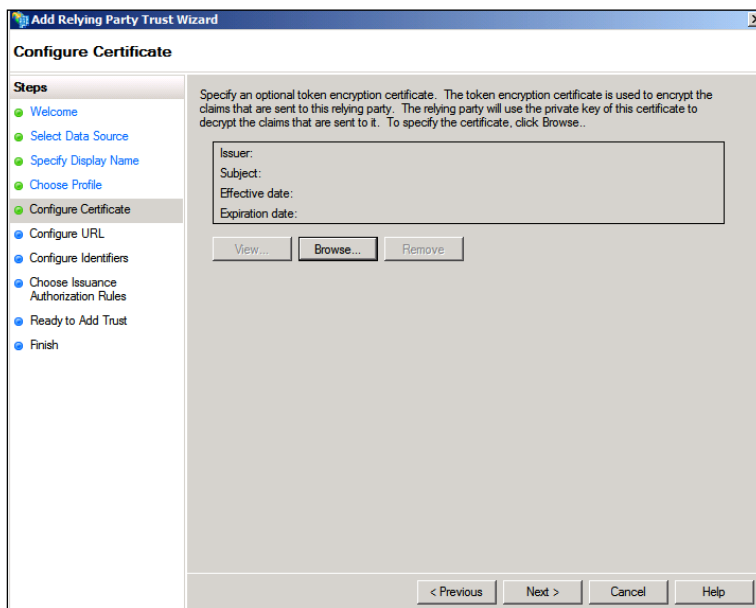
Notes:

< Previous   Next >   Cancel   Help

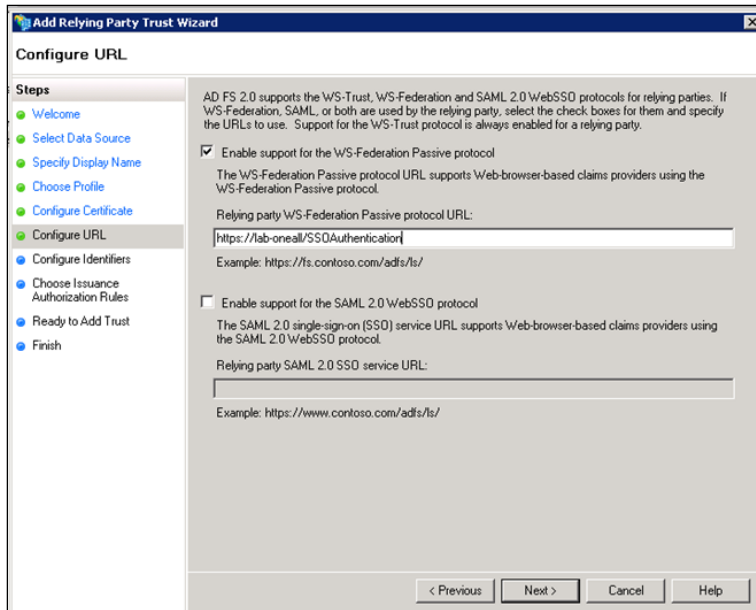
5. Enter the SSOAuthentication **Audience URL** (as configured during the SSOAuthentication configuration process) into the **Display name** field. The URL should be entered in the following format:  
`https://[SSOAuthenticationWebServer]/SSOAuthentication`  
The URL for the example environment is `https://lab-oneall/SSOAuthentication`.
6. Click the **Next** button to display the **Choose Profile** page.



7. Select the **ADFS 2.0 profile** radio button and then click the **Next** button to display the **Configure Certificate** page.



8. Click the **Next** button to display the **Configure URL** page.



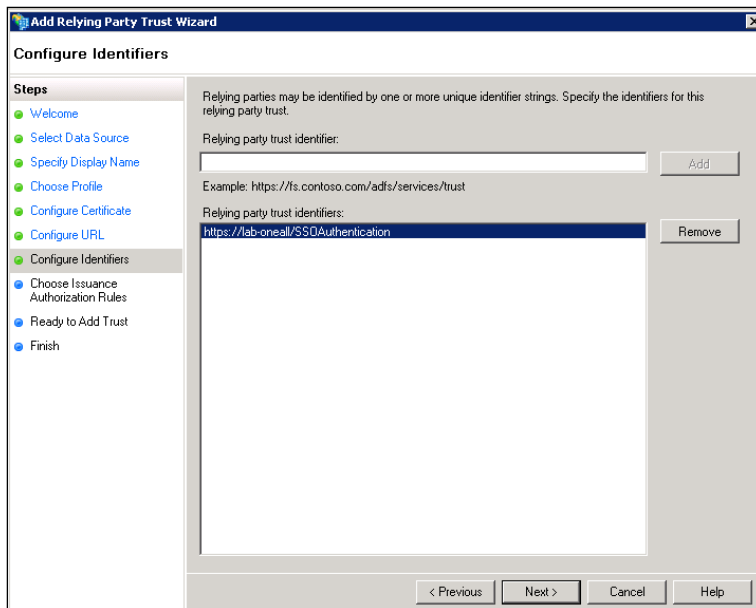
9. Select the **Enable support for Ws-Federation Passive protocol** check box and then enter the **Relying Party WS-Federation Passive protocol URL**.

The URL must be in the following format:

`https://[SSOAuthenticationWebServer]/SSOAuthentication`

For the example environment, the URL is `https://lab-oneall/SSOAuthentication`.

10. Click the **Next** button to display the **Configure Identifiers** page.



11. Enter the **Audience URL** (as configured during the SSOAuthentication configuration process) into the **Relying party trust identifier** field.

The URL must be in the following format:

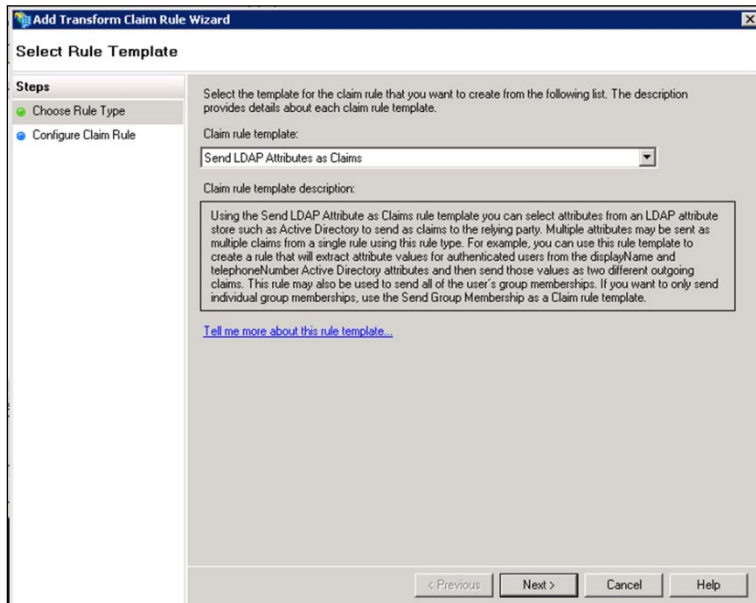
`https://[SSOAuthenticationWebServer]/SSOAuthentication`

For the example environment, the Audience URL is

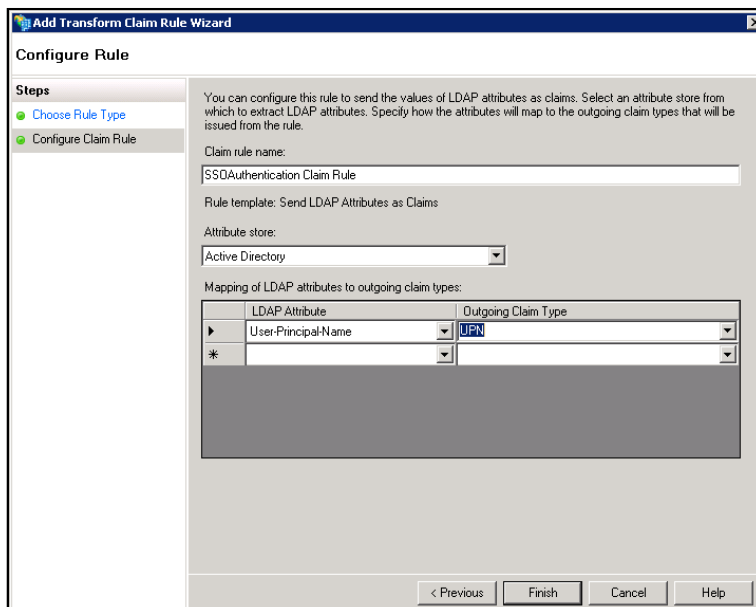
`https://lab-oneall/SSOAuthentication`

12. Click the **Next** button three more times to move through to the end of the wizard.

13. On the **Finish** page, select the option to configure claims to display the **Add Transform Claim Rule** wizard.



14. Select **Send LDAP Attributes as Claims** from the **Claim rule** template field and then click the **Next** button to display the **Configure Claim Rule** page.

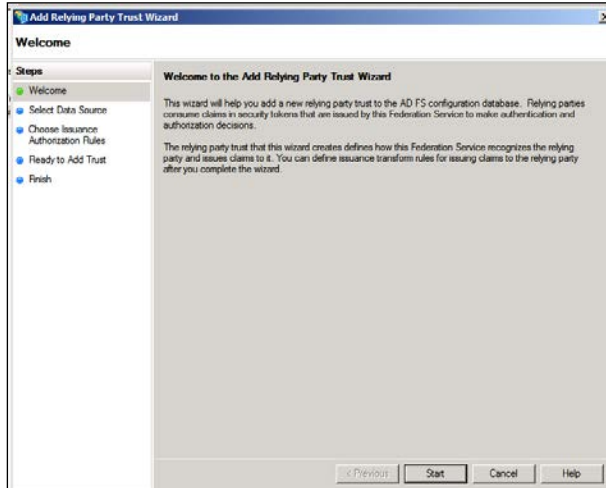


15. Enter a unique name into the **Claim Rule name** field (Capita suggests using the name “SSOAuthentication Claim Rule”).
16. Select **Active Directory** from the **Attribute store** drop-down list.
17. Select **User Principal Name** from the **LDAP Attribute** drop-down list and then select **UPN** from **Outgoing Claim Type** drop-down list.
18. Click the **Finish** button to close the wizard and then click the **OK** button to save your changes.

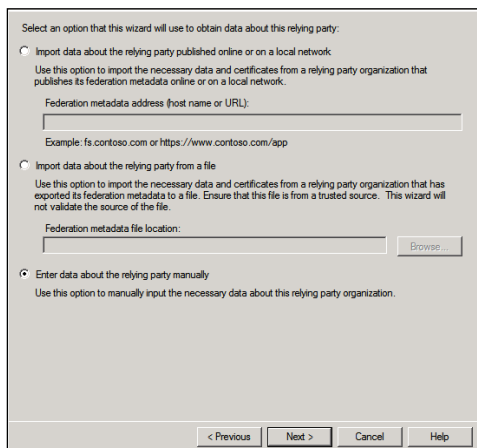


## Adding the Application Server as a Relying Party

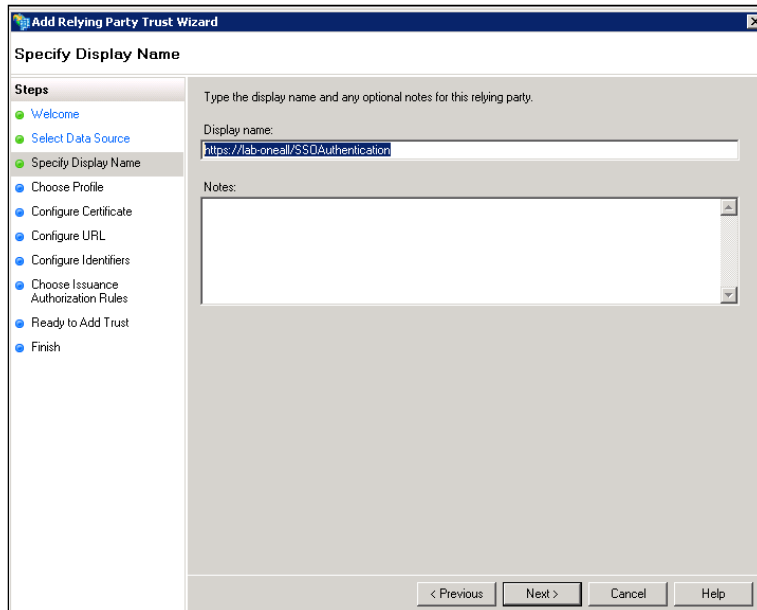
1. On the ADFS server, run the ADFS Management console.
2. Select **Trust Relationships | Relying Party Trust | Add Relying Party Trust** to display the **Add Relying Party Trust Wizard**.



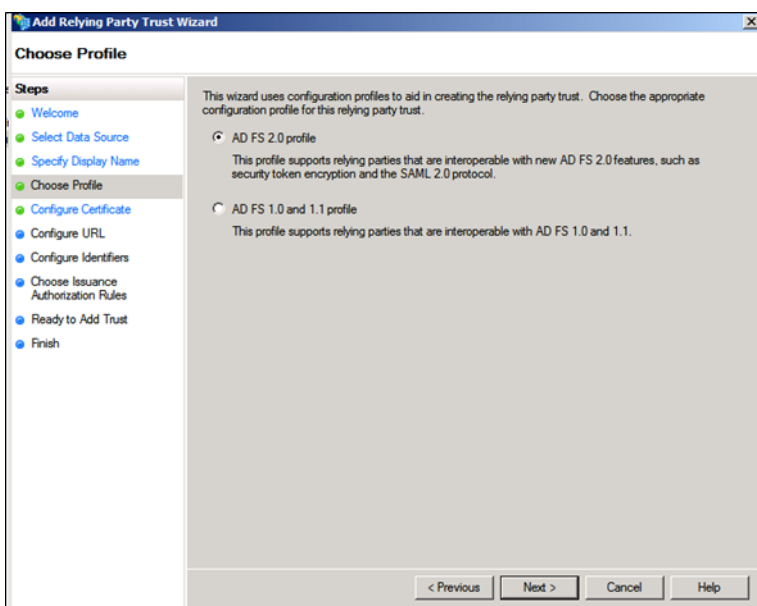
3. Click the **Start** button to run the wizard and display the **Select Data Source** page.



4. Select the **Enter data about the relying party manually** radio button and then click the **Next** button to display the **Specify Display Name** page.

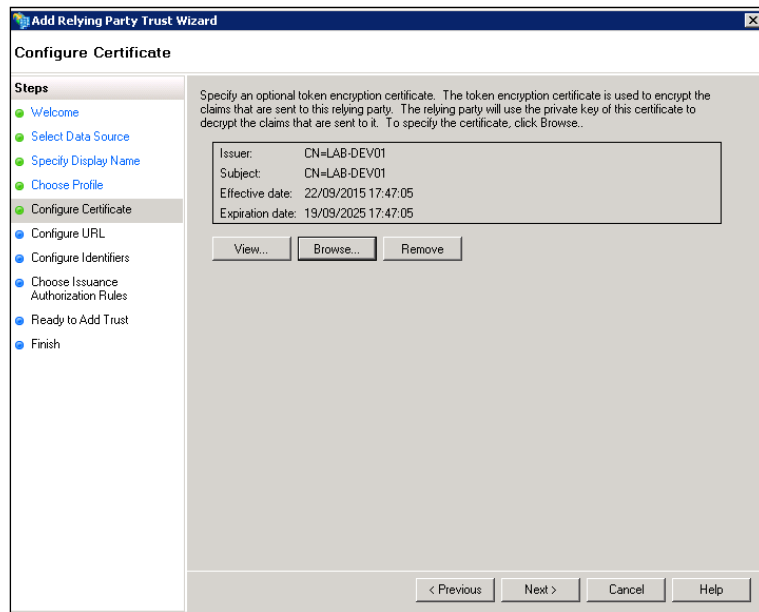


5. Enter the application server Audience URL (as configured during the application server configuration process) into the **Display name** field. It must be in the following format:  
[https://\[AppServer\]/WCFServices/AuthenticationService.svc](https://[AppServer]/WCFServices/AuthenticationService.svc)  
 The value for the example environment is  
[https://LAB-DEV01/CCSEnterprise\\_ApplicationService\\_Debug358/WCFServices/AuthenticationService.svc](https://LAB-DEV01/CCSEnterprise_ApplicationService_Debug358/WCFServices/AuthenticationService.svc).
6. Click the **Next** button to display the **Choose Profile** page.

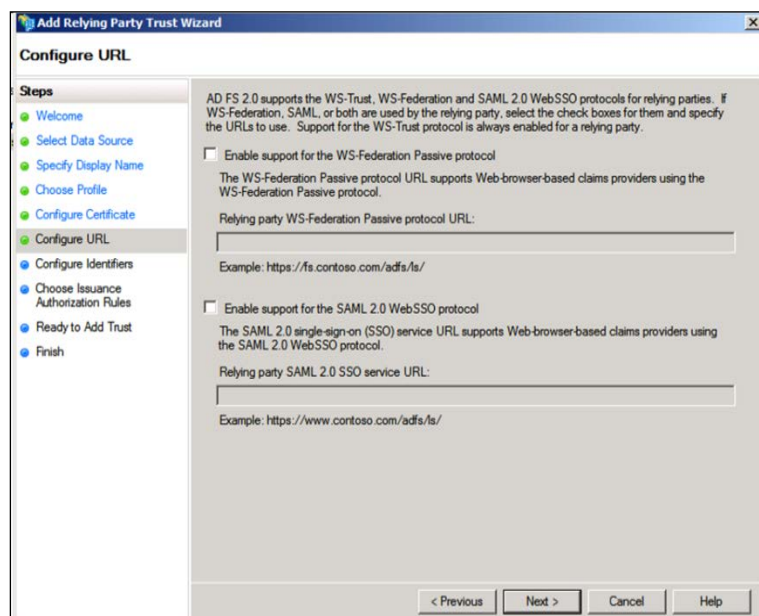


7. Select the **ADFS 2.0 profile** radio button and then click the **Next** button to display the **Configure Certificate** page.

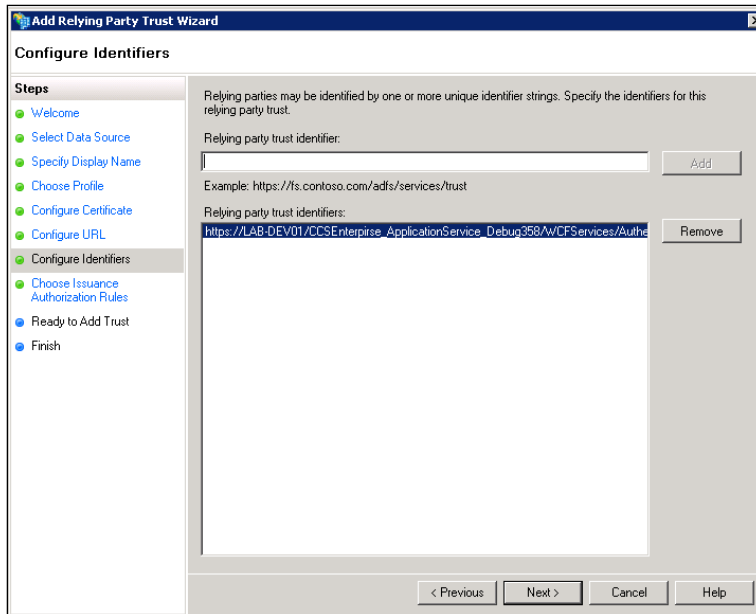
## Configuring ADFS



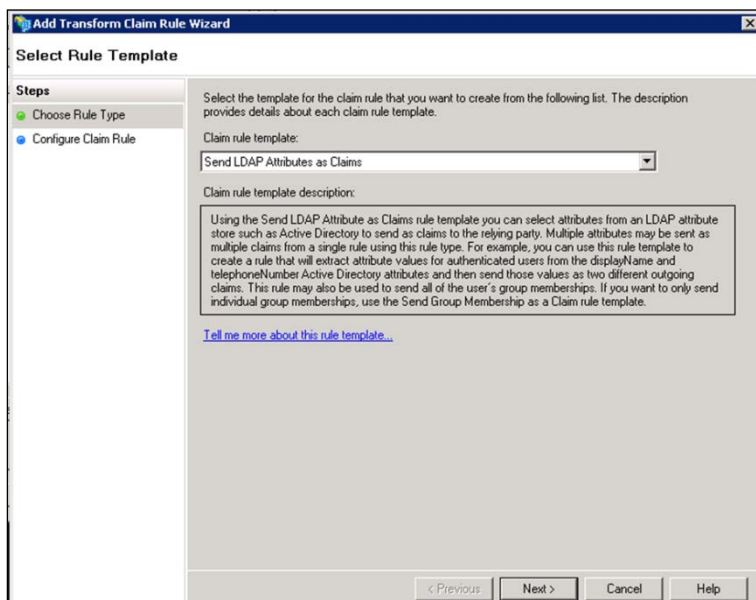
8. Click the **Browse** button and select the certificate that you copied during the application server configuration process.
9. Click the **Next** button to display the **Configure URL** page.



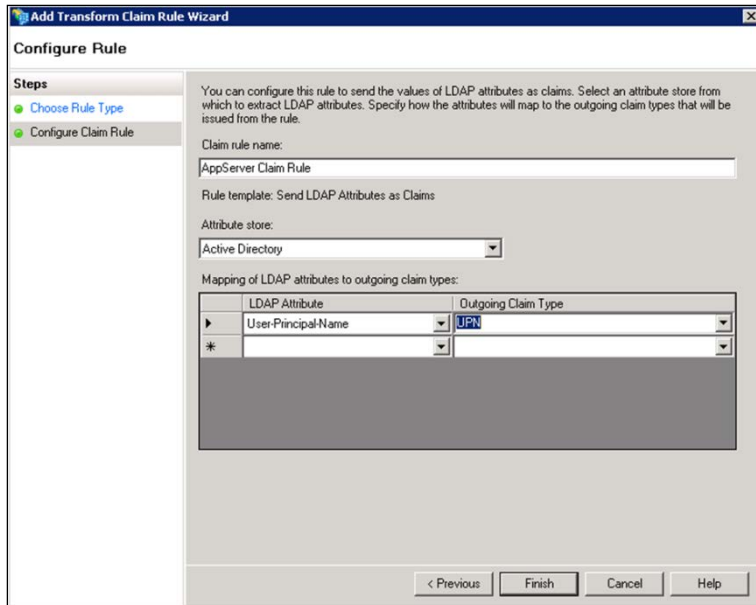
10. Click the **Next** button to display the **Configure Identifiers** page.



11. Enter the audience URL that you set during the application server configuration process into the **Relying party trust identifier** field. The URL must be entered in the following format:  
`https://[AppServer]/WCFServices/AuthenticationService.svc`  
 The value for the example environment is  
`https://LAB-DEV01/CCSEnterprise_ApplicationService_Debug358/WCFServices/AuthenticationService.svc`
12. Click the **Next** button three more times to move through to the end of the wizard.
13. On the **Finish** page, select the option to configure claims to display the **Add Transform Claim Rule** wizard.



14. Select **Send LDAP Attributes as Claims** from the **Claim rule** template field and then click the **Next** button to display the **Configure Claim Rule** page.

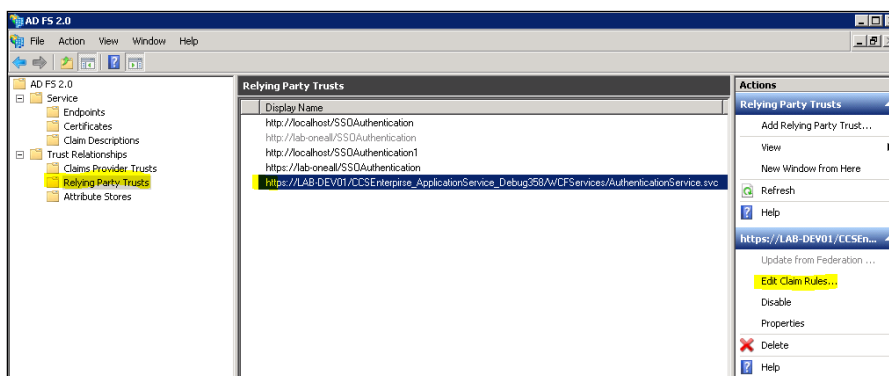


15. Enter a unique name into the **Claim Rule name** field (Capita suggests using the name "AppServer Claim Rule").
16. Select **Active Directory** from the **Attribute store** drop-down list.
17. Select **User Principal Name** from the **LDAP Attribute** drop-down list and then select **UPN** from **Outgoing Claim Type** drop-down list.
18. Click the **Finish** button to close the wizard and then click the **OK** button to save your changes.

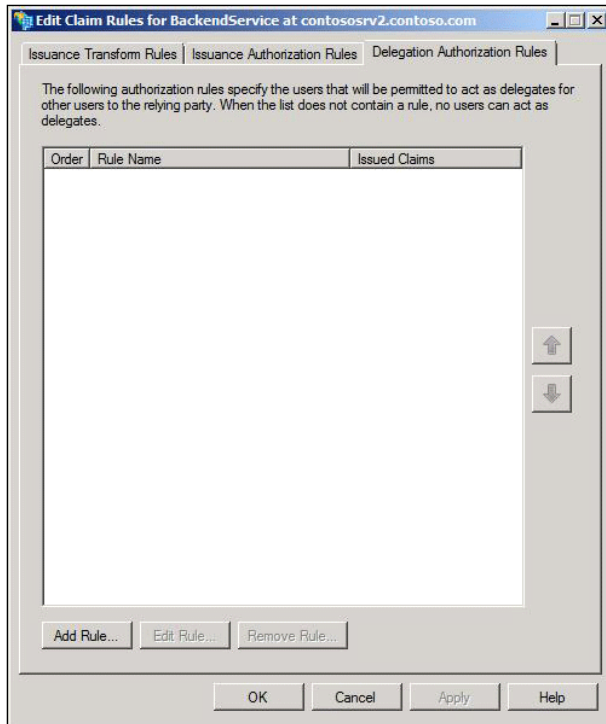
## Configuring Communication Between the SSOAuthentication Website and the AppServer

### Changes to the Application Server Relying Party

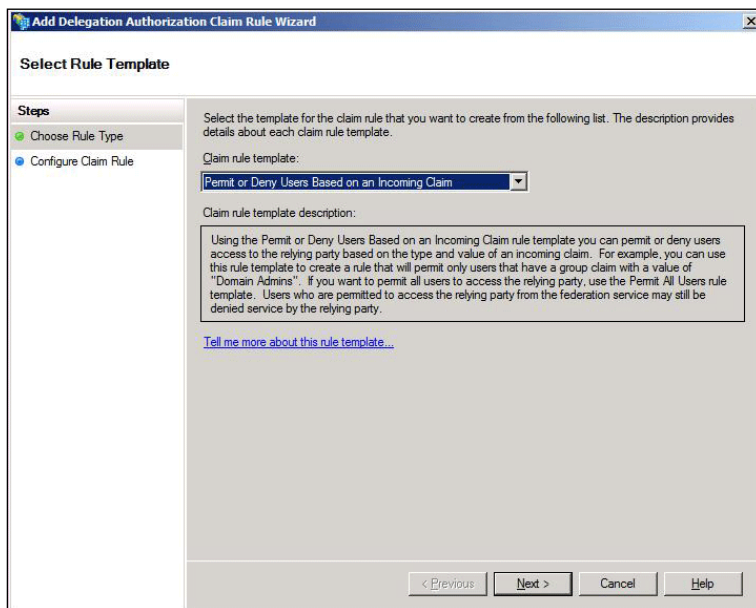
1. Within the Microsoft Management Console, select the **Relying Party Trusts** folder from the left-hand panel to display a list of relying party addresses in the centre panel.



2. Highlight the application server relying party (https://LAB-DEV01/CCSEnterprise\_ApplicationService\_Debug358/WCFServices/AuthenticationService.svc in the example) and then click the **Edit Claim Rules** hyperlink to display the **Edit Claim Rules** dialog.

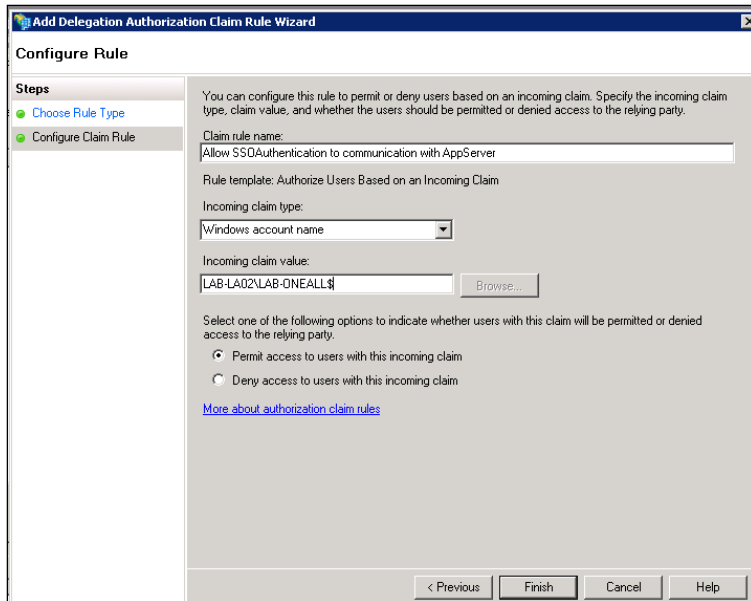


3. Select the **Delegation Authorization Rules** tab and then click the **Add Rule** button to display the **Add Delegation Authorization Claim Rule** wizard.



4. Select **Permit or Deny Users Based on an Incoming Claim** from the **Claim rule template** drop-down menu and then click the **Next** button to display the **Configure Claim Rule** page.



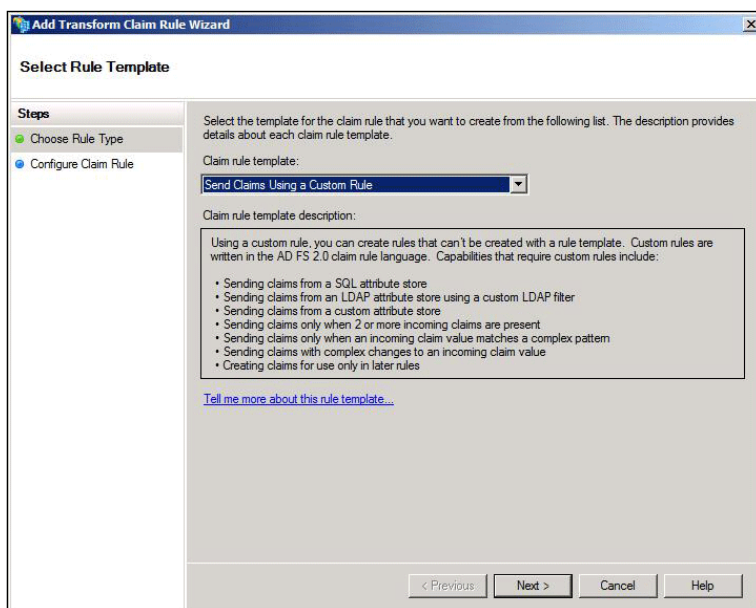


5. Select **Allow SSOAuthentication to communicate with AppServer** from the **Claim rule name** drop-down menu.
6. Select **Windows account name** from the **Incoming claim type** drop-down menu.
7. Enter the name of the SSOAuthentication Web Server into the **Incoming claim** value field, using the following format: DOMAIN\WEBSERVER\$ (all uppercase letters)

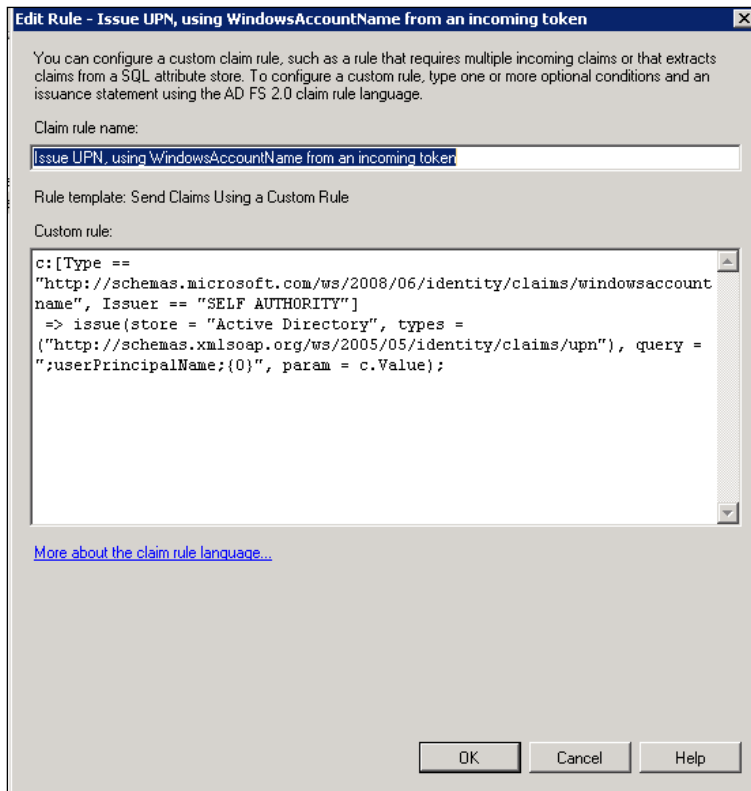
The SSOAuthentication Web Server for the example environment is

LAB-LA02\LAB-ONEALL\$.

8. Ensure that the **Permit access to users with this incoming claim** radio button is selected, and then click the **Finish** button to close the wizard and return to the **Edit Claim Rules** dialog.
9. Select the **Issuance Transform Rules** tab and then click the **Add Rule** button to display the **Add Transform Claim Rule** wizard.



10. Select **Send Claims Using a Custom Result** from the **Claim rule template** drop-down menu and then click the **Next** button to display the **Edit Rule** page.



11. Type "Issue UPN, using WindowsAccountName from an incoming token" into the **Claim rule name** field.

12. Copy the following code and paste it into the **Custom rule** text box.

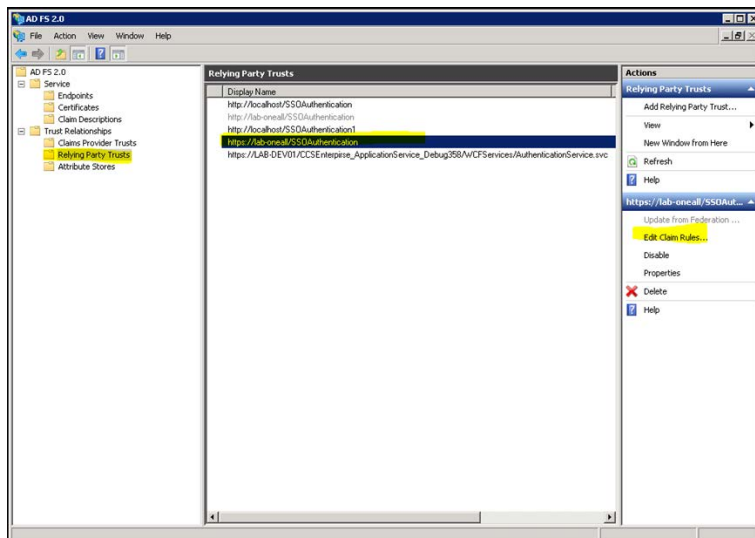
```
c:[Type ==
"http://schemas.microsoft.com/ws/2008/06/identity/claims/windowsaccountname",
Issuer == "SELF AUTHORITY"] => issue(store = "Active Directory", types =
("http://schemas.xmlsoap.org/ws/2005/05/identity/claims/upn"), query =
";userPrincipalName;{0}", param = c.Value);
```

13. Click the **OK** button to the **Edit Claim Rules** dialog, and then click the **OK** button again to save your changes.

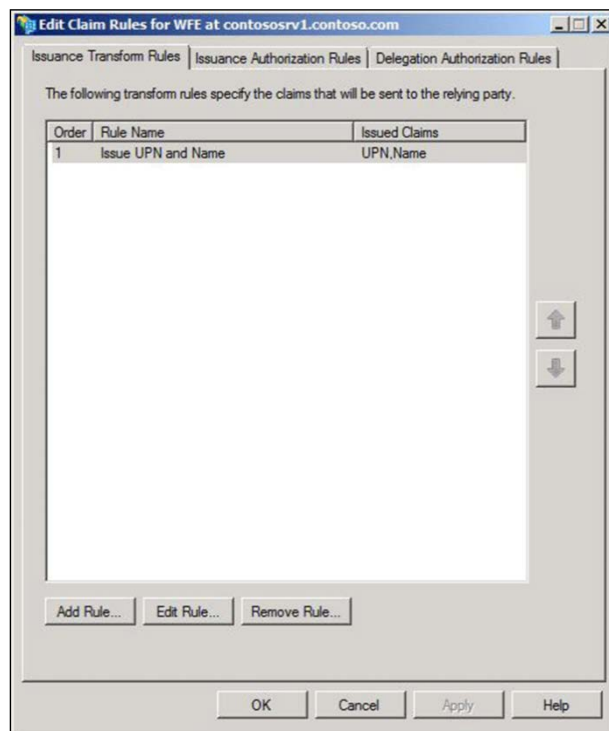
## Changes to the SSOAuthentication Relying Party

1. Within the Microsoft Management Console, select the **Relying Party Trusts** folder from the left-hand panel to display a list of relying party addresses in the centre panel.

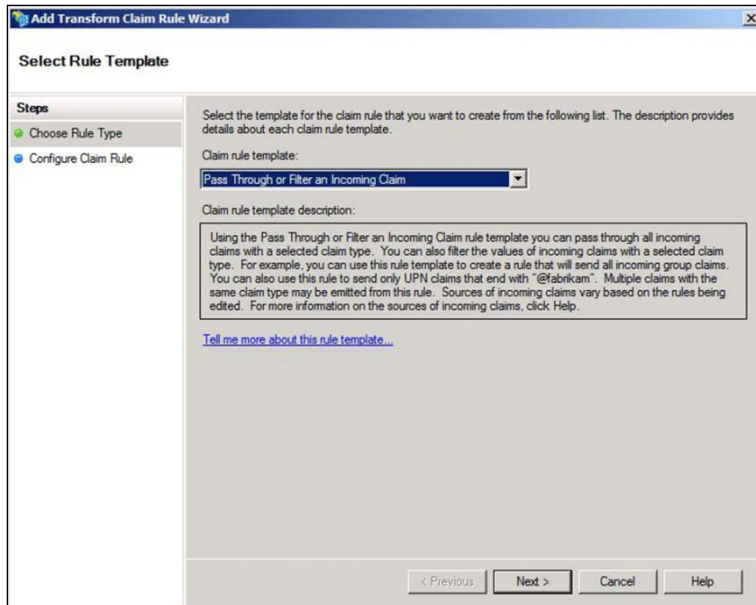
## Configuring ADFS



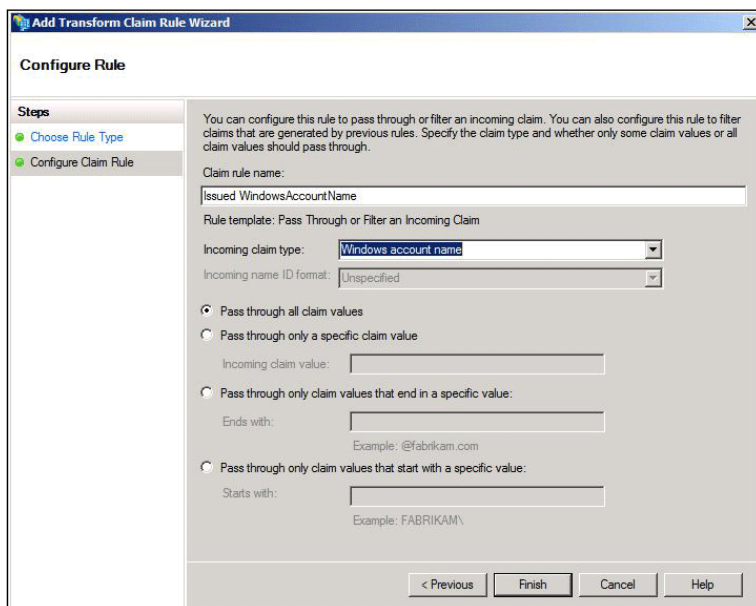
2. Select the SSOAuthentication relying party (<https://lab-oneall/SSOAuthentication> is the example environment) and then click the **Edit Claim Rules** hyperlink to display the **Edit Claim Rules** dialog.



3. Select the **Issuance Transform Rules** tab and then click the **Add Rule** button to display the **Add Transform Claim Rule** wizard.



4. Select **Pass Through or Filter an Incoming Claim** from the **Claim rule template** drop-down list and then click the **Next** button to display the **Configure Claim Rule** page.

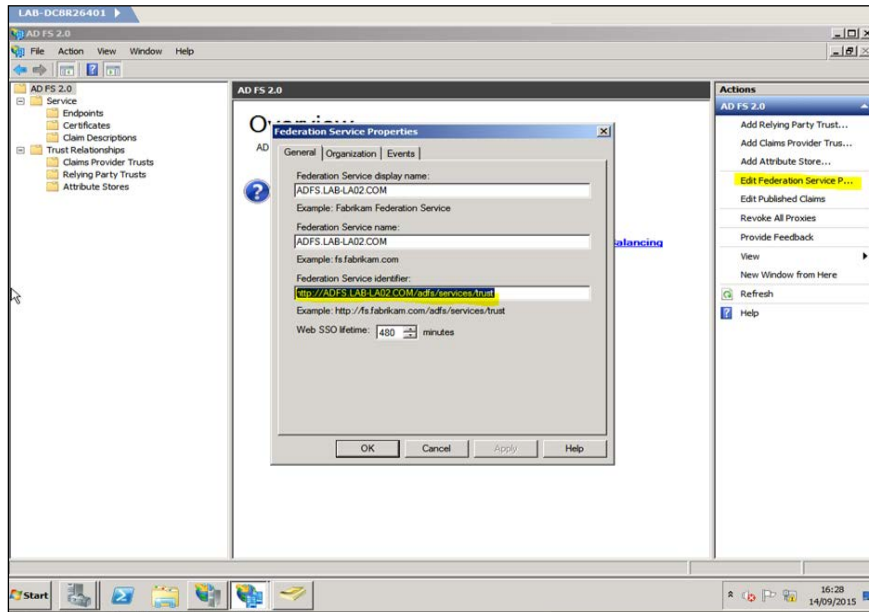


5. Enter "Issued WindowsAccountName" into the **Claim rule name** field.
6. Select **Windows account name** from the **Incoming claim type** drop-down menu.
7. Ensure that the **Pass through all claim values** radio button is selected, and then click the **Finish** button to add the rule and return to the **Edit Claim Rules** dialog.
8. Click the **OK** button to save your changes.

## Appendix – Obtaining ADFS Details

### Obtaining the ADFS Identifier

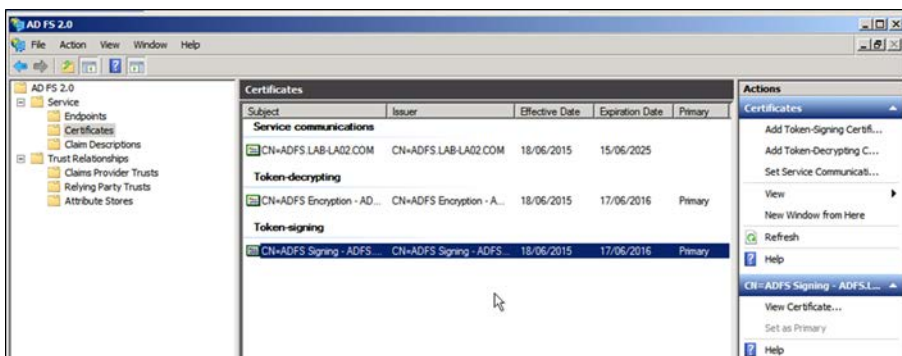
In the ADFS Management application, highlight **ADFS2.0** in the left-hand panel and then click the **Edit Federation Service Properties** hyperlink to display the **Federation Services Properties** dialog.



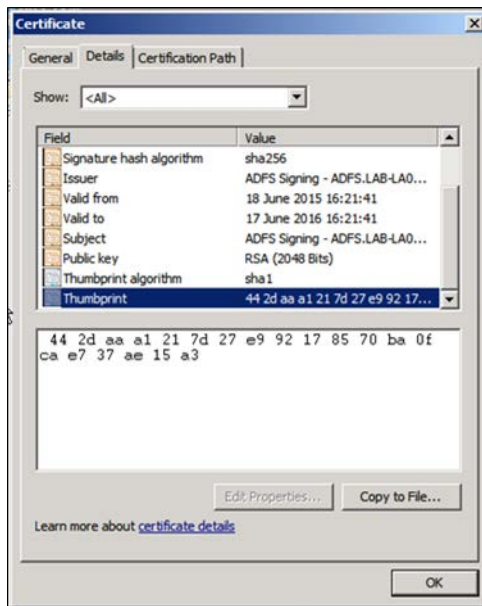
The **Federation Service Identifier** is displayed toward the bottom of the dialog. You can copy this value to use elsewhere if required.

### Obtaining the ADFS Signing Token Certificate

1. On the machine hosting the ADFS server, open the ADFS Management application.
2. Select **Certificates** from the left-hand panel to display a list of certificates in the centre panel.



3. Double-click the token-signing certificate to display the **Certificate** dialog.
4. Select the **Details** tab. The thumbprint is displayed in the field at the bottom.



5. Copy and paste the thumbprint into Notepad
6. Remove any spaces and hidden characters that were displayed when you copied the thumbprint into Notepad.

The thumbprint is now ready for use.



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