Integrate Umbrella with NetIQ for SSO with SAML

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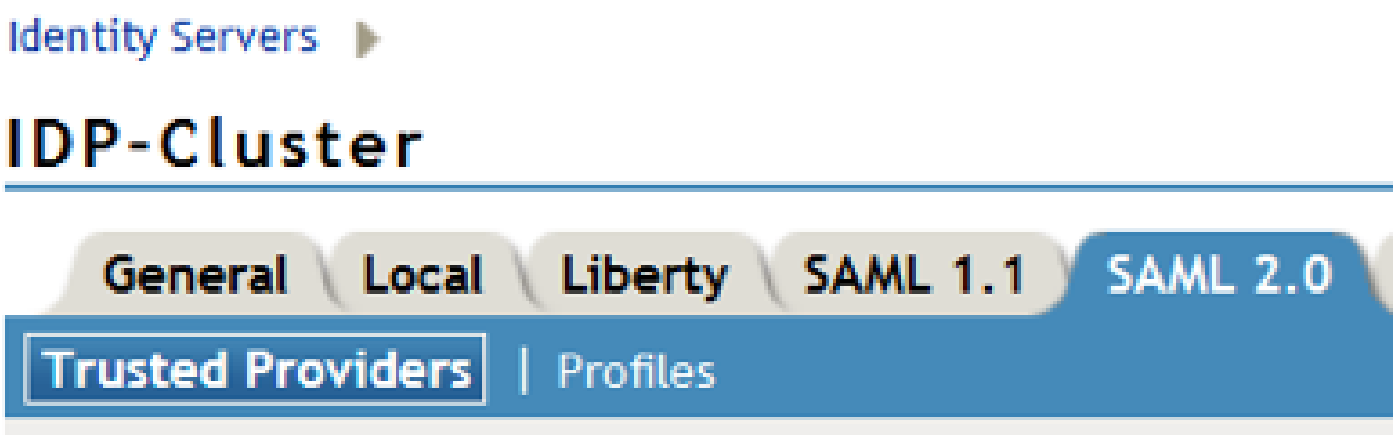
Introduction

This document describes how to integrate Cisco Umbrella with NetIQ for Single Sign-on (SSO) with SAML.

Overview of Umbrella SAML Integration for NetIQ

Configuring SAML with NetIQ differs from our other SAML integrations as it is not a one or two click process in the wizard, but requires changes in NetIQ to work correctly. This document describes the detailed modifications you need to make in order to get SAML and NetIQ working together. As such, this information is provided "as is" and was developed in conjunction with existing customers. Available support for this solution is limited and Cisco Umbrella support is unable to assist beyond the general outline given here.

For more information on how SAML integration works with Umbrella, read our review here: Get Started with Single Sign-On.



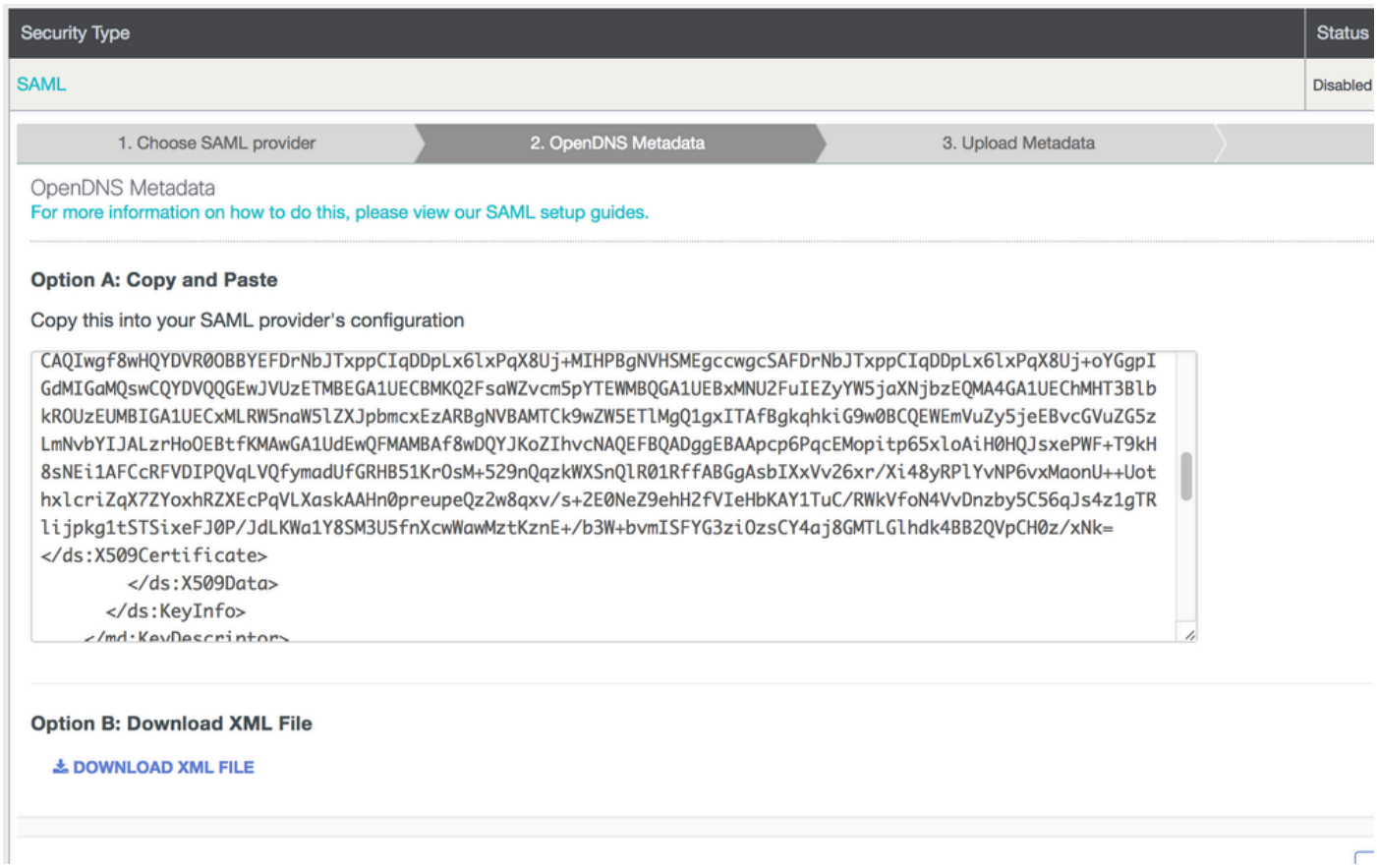
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Prerequisites

You can find steps to get through the initial SAML setup here: Identity Integrations: Prerequisites. Once you complete those steps which include downloading the Cisco Umbrella metadata, you can continue using these

NetIQ specific instructions to complete the configuration.

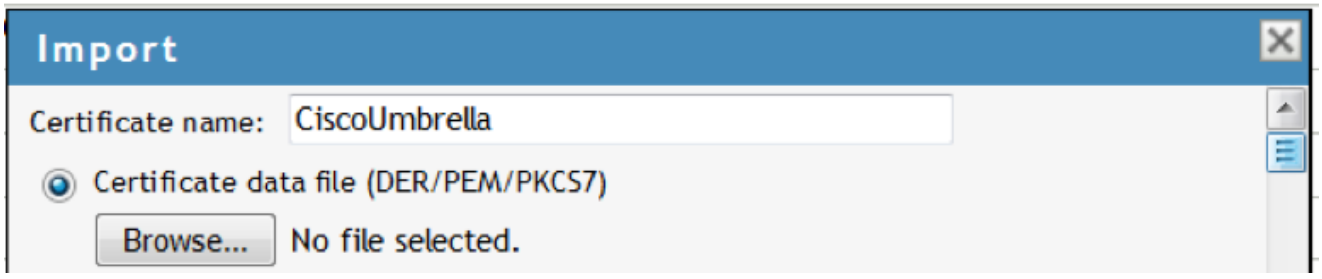
The metadata can be found in the Cisco Umbrella SAML setup wizard (**Settings > Authentication > SAML**).



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Import Metadata and Cisco Umbrella Certificate

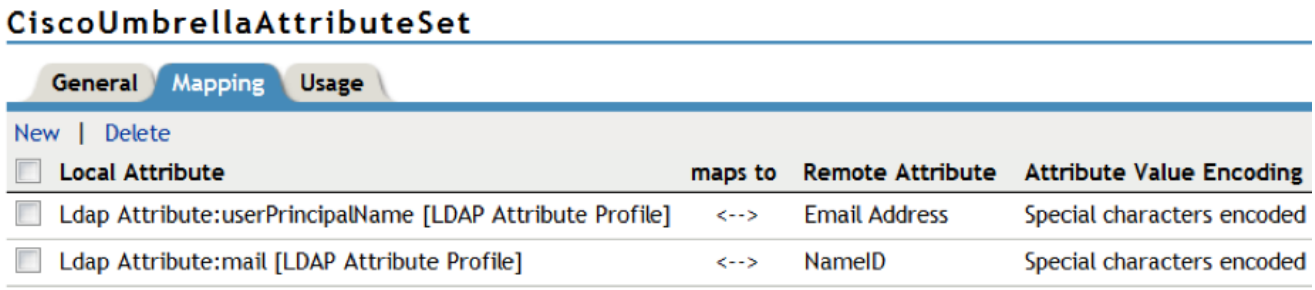
1. Open the Cisco Umbrella metadata (downloaded in the prerequisites) in a text editor and extract the X509 certificate. The certificate begins with *ds:X509Certificate* and ends with */ds:X509Certificate* - just copy from the very beginning to the end.
2. Save this new file as *CiscoUmbrella.cer*.
3. Convert the x509 certificate to PKCS7 / PEM. Methods for this vary, but this command does the trick: **openssl x509 -in CiscoUmbrella.cer -out CiscoUmbrella.pem -outform PEM**
4. In NetIQ, launch NAM under Trusted Roots.
5. Select **New > Browse** and import *CiscoUmbrella.pem*.



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Create an Attribute Group

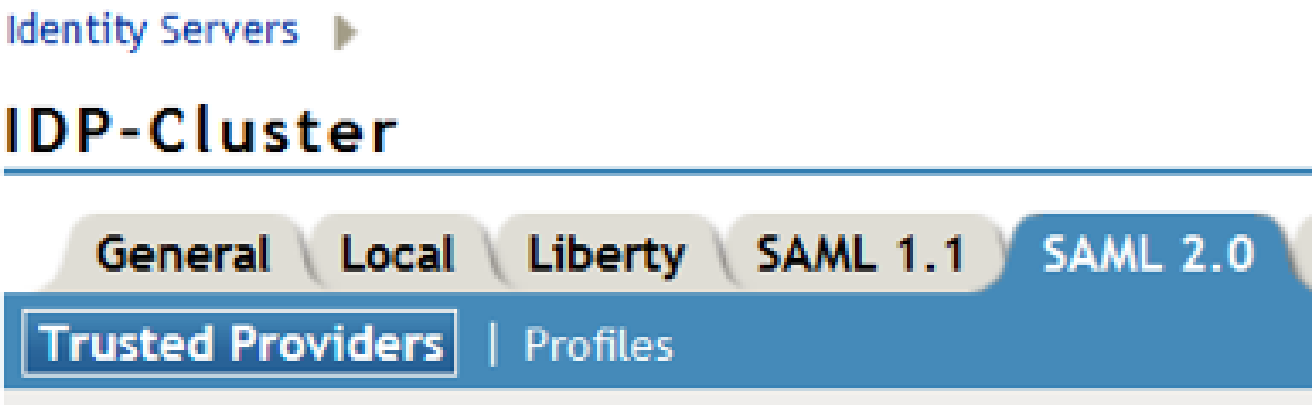
1. Go to **Identity Servers > NetIQ NAM**.
2. Click **Attribute Sets**.
3. Select **New** and map the LDAP Attributes:



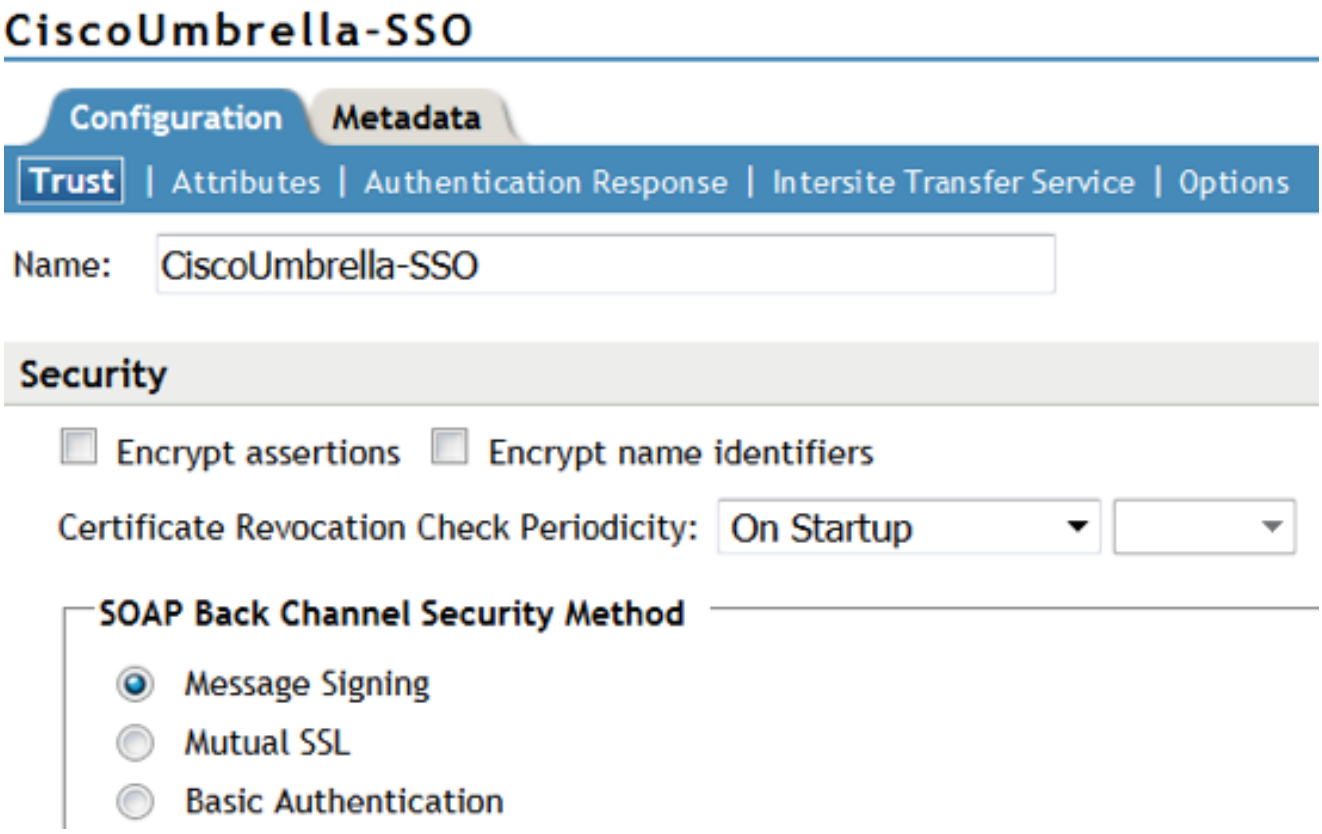
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Create a New Trust Provider

1. Go to the **IDP General Tab** and select **SAML 2.0**.
2. Select **Create New Trust Provider**.

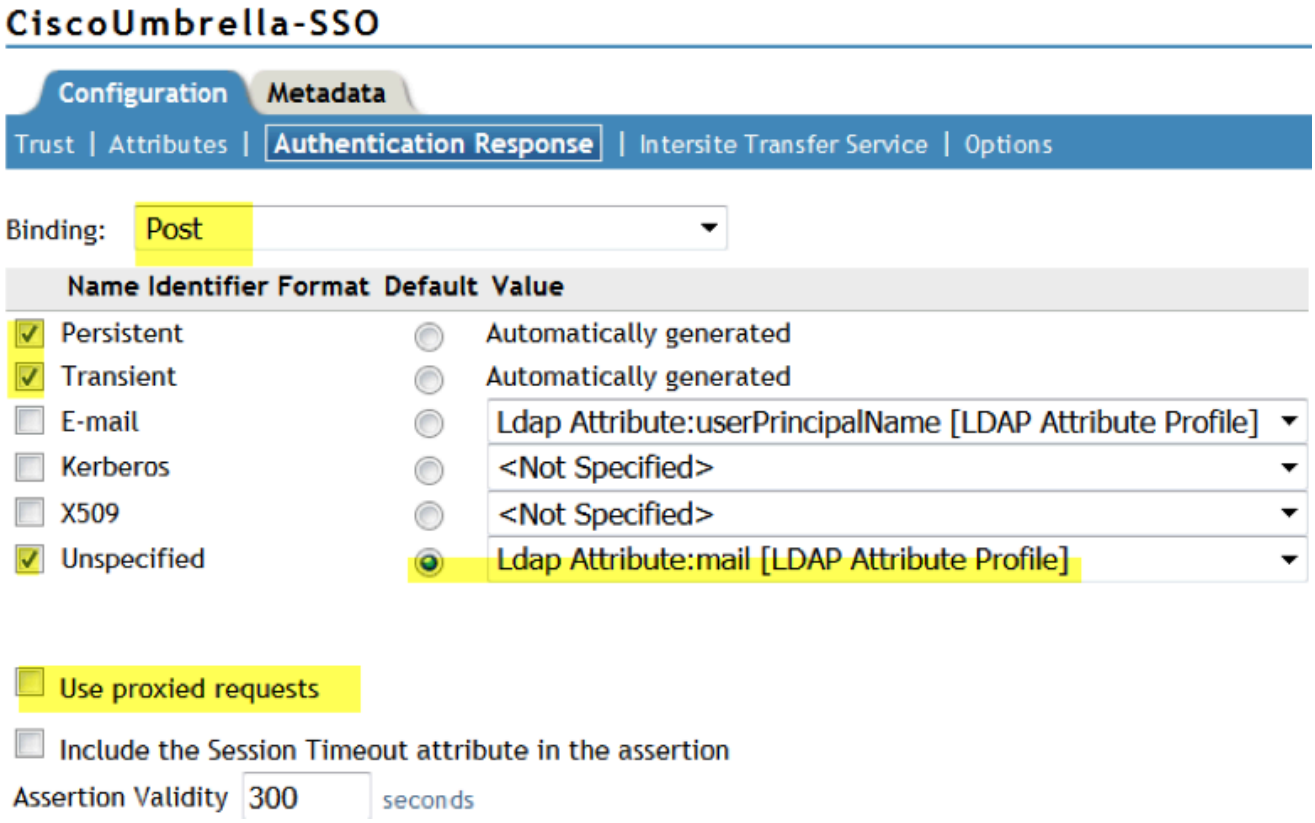


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3. Select the Attribute you just created and choose **Send with Authentication**. For Authentication Response choose **Post Binding**, **Persistent**, **Transient**, and **Unspecified**.
4. Select **LDAP Attribute: mail [LDAP Attribute Profile]** and make it default.



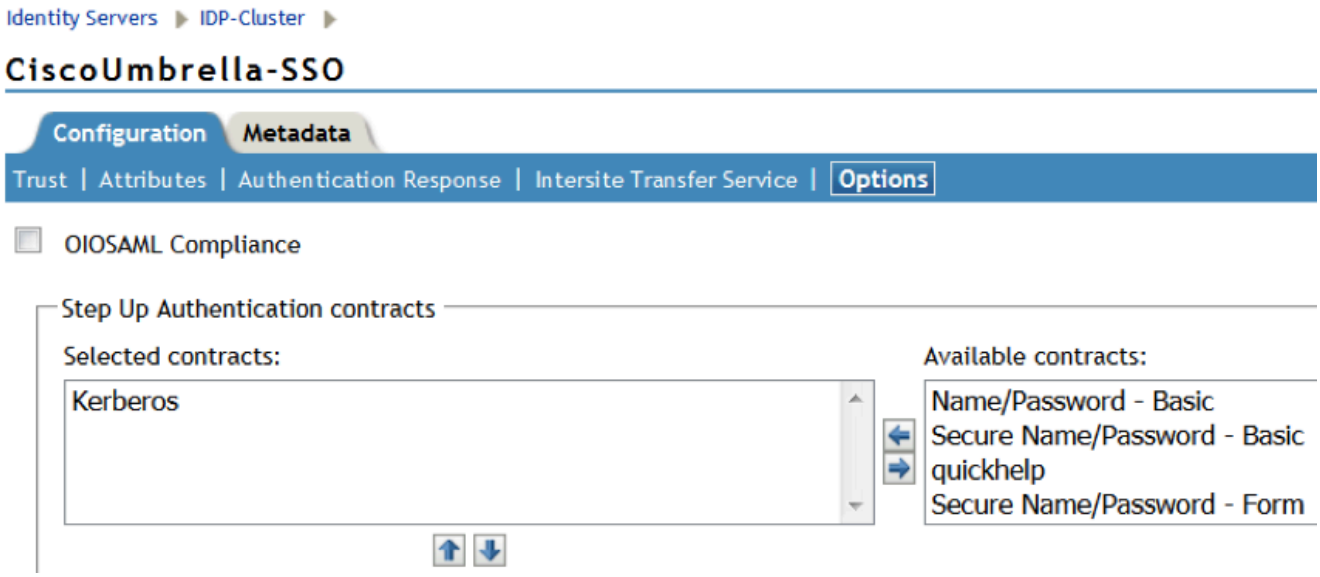
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5. Navigate to to **Configuration** > **Intersite Transfer Service**. Give it a name like Cisco Umbrella SAML and add the Cisco Umbrella SSO login URL as a Target (https://login.umbrella.com/sso).



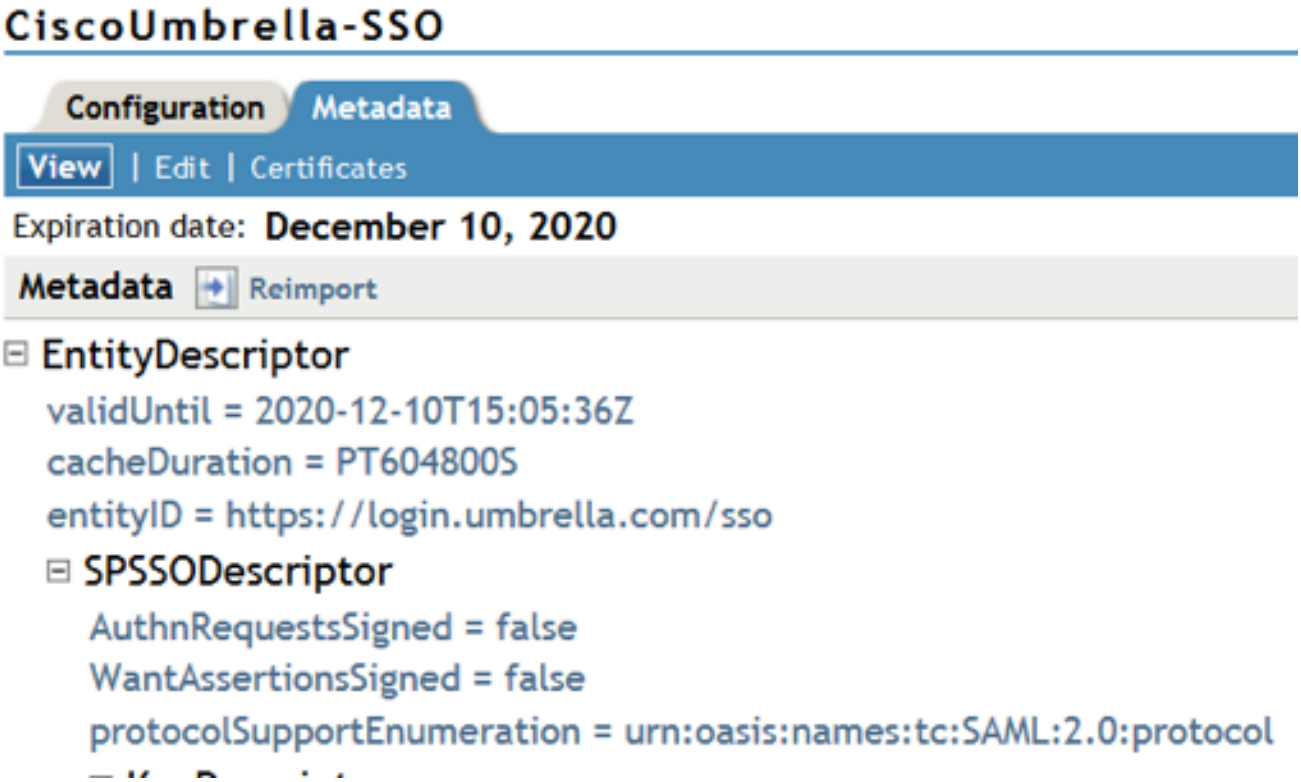
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6. Go to **Configuration** > **Options** and choose **Kerberos** as the Selected contracts:



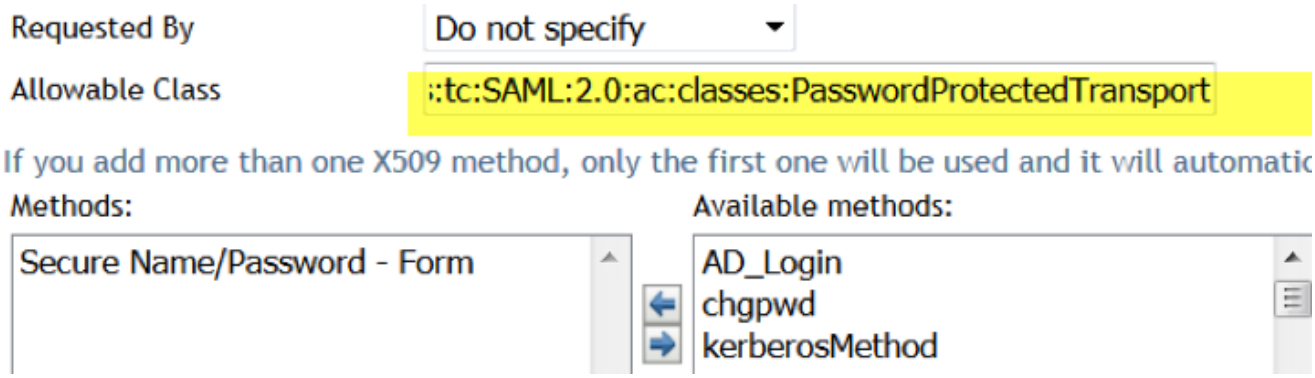
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7. Open the Cisco Umbrella Metadata file. Update the *EntityDescription* field *vaildUntil* date to a future data, such as 2020-12-10T20:50:59Z (as shown in the screenshot).
8. Go back to **NetIQ** > **Metadata** and import the updated metadata file.



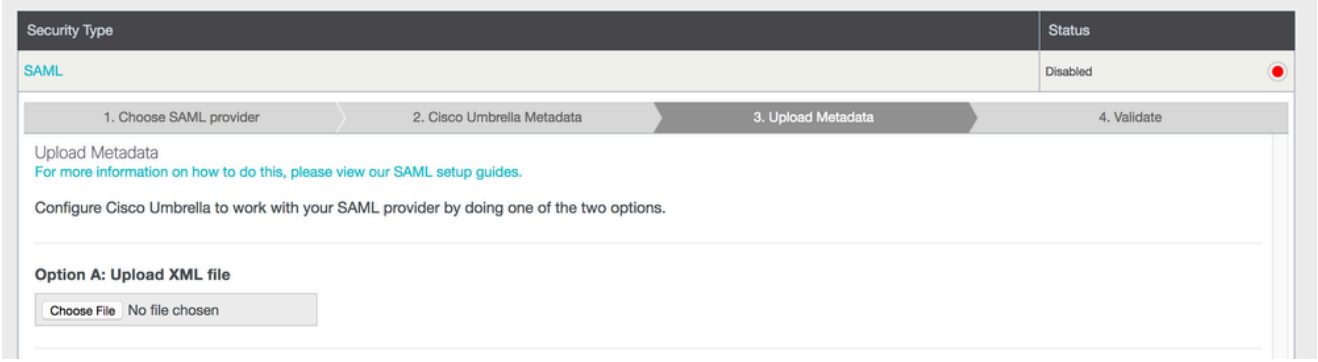
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9. Add a class to the assertion. The Cisco Umbrella assertion requires the class **urn:oasis:names:tc:SAML:2.0:ac:classes:PasswordProtectedTransport**
10. Go to **Local > Contracts** and select **Secure Name/Password** and add to *Allowable Class* field, then add the class above:



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11. Update Identity Services and Access Gateways to ensure they are valid and up to date, then download the NetIQ metadata.
12. Use the downloaded metadata to run through the Cisco Umbrella "Other" SAML wizard. Step 3 is where you are asked to upload the metadata:



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