



Implementing SSO with Login Handler and DUO

Introduction

This is an overview guide on how to implement SSO (Single-Sign-On) with Claromentis and DUO

Prerequisite

- Claromentis 9+ with Login Handler Module version 4+
- [Duo Essentials](#) package with Single Sign-On
- Duo Admin account with the Owner role.
- Active Directory or a SAML identity provider that can be used as your primary authentication source for Duo Single Sign-On.

Important: Duo isn't an Identity Provider and it requires Active Directory or a SAML identity Provider

Duo

📖 **Duo Documentation:** [Duo Single Sign-on for Generic SAML Service Providers](#)

Step 1: Enable Duo Single Sign On

1. Log in to the Duo Admin Panel and navigate to **Applications → SSO Settings**.

2. On the **Customize SSO Subdomain** page you can specify a subdomain you'd like your users to see when they are logging in with Duo Single Sign-On. For example, you can enter companyname and users would see companyname.login.duosecurity.com in the

Applications > Single Sign-On

Single Sign-On

Authentication Sources Bridge Attributes **Subdomain**

Your users will see this subdomain during authentication. Users can also use the subdomain to log into [Duo Central](#). You can customize the single sign-on experience to match your company's brand and help your users recognize phishing attempts. Once customized, your subdomain cannot be changed.

URL claromentis.login.duosecurity.com

3. On the **Add Authentication Source** page choose between using **Active Directory** or a SAML Identity Provider as your authentication source.

4. If you are using Active Directory, follow the guide to install **Authentication Proxy**

1. Install the Authentication Proxy

This standalone software securely connects your on-premises Active Directory to Duo Single Sign-On. Authentication requests are sent from Duo Single Sign-On to your authentication proxies. Duo recommends configuring at least three proxies for high availability.

Authentication proxies assigned to AD1

Proxy name	Status	Version
- Authentication Proxy	Connected to Duo	6.4.2

1 total

5. Configure Active Directory

2. Configure Active Directory

Add details about your Active Directory in order to authenticate with Duo Single Sign-On.

Display Name *

AD1

Used only to help you identify the directory within our interface.

Domain Controller(s) *

Hostname or IP address (1) *

ad1.claromentis.net

Port (1) *

389

+ Add Domain Controller

Learn more about Domain Controllers and Global Catalog

Base DN(s) *

DC=ad1,DC=claromentis,DC=net

+ Add Base DN

Specify an OU or container in your domain that contains the users allowed to authenticate or specify the root DN to allow all users to authenticate. For example: DC=example,DC=com

Authentication type *

☒ Integrated

☐ NTLMv2

☐ Plain

Type of authentication you would like to perform with your Active Directory. Integrated performs Windows authentication from a domain-joined system. Plain performs username-password authentication. NTLMv1 and NTLMv2 also perform username-password authentication with additional options for the directory domain and workstation.

Transport type *

☒ Clear - Unencrypted

☐ LDAPS

☐ STARTTLS

You cannot allow users to reset their expired password with this Transport Type.

All traffic between Duo and the Authentication Proxy is encrypted. This setting controls how communication between your Active Directory and the proxy is encrypted.

Email attributes *

mail

+ Add attribute

Please provide email address attributes users may login with. Users must login with an email address from a Permitted Domain. Attributes must be in an email address format. See Permitted Email Domains section for more information.

Duo username attribute

☐ Specify Duo username attribute

Check this box to specify an alternative attribute that contains the Duo username.

Username normalization *

☐ None

☒ Simple

"DOMAIN\username", "username@example.com", and "username" are treated as the same user.

Controls if a username should be altered before trying to match them with a Duo user account.

Expired password reset

☒ Don't allow users to reset their expired password

☐ Allow users to reset their expired password

☒ A transport type of LDAPS or STARTTLS is required to allow users to reset their expired password

Users with expired passwords will be blocked from logging in and see an error.

Users with expired passwords will be instructed to reset their password via the login prompt.

Proactive password change

☒ Don't allow users to proactively change their password

☐ Allow users to proactively change their password

☒ A transport type of LDAPS or STARTTLS is required to allow users to proactively change their password

Users will have to wait until their password has expired to change it.

Users will be given the option to change their password via the login prompt.

Session Duration

8

hours

The number of hours a user will stay logged into Duo Single Sign-On before having to authenticate with their primary credential again. Must specify between 1-24 hours.

Logout Redirect URL

optional

URL users will be redirected to after logging out of Duo Single Sign-On.

6. Set Permitted Email Domains

7. Test Active Directory Configuration

4. Test Active Directory Configuration

Test your Active Directory configuration and connection to the Authentication Proxies before saving. This will attempt to co account.

Active Directory correctly configured.
Note: Duo's tests can check only the authproxy.cfg file and the service account credentials. They cannot check the domain controllers and if they match users' accounts. It is recommended you test your configuration with a sample of user credentials.

Run tests

Claromentis

Step 2: Configure SSO in Claromentis

Navigate to Admin → Custom Login handler → SSO Configuration

- 1. Select Identity Provider "Duo"
- 2. Notice the following information which needs to be configured in the Duo Application
- 3. Populate Security Configuration
- 4. IDP Identifier (you will need this information from Duo Application)
- 5. Federation Metadata XML (you will need XML from Duo Application)

6. Save Options

SSO Configuration

Please be very careful when changing any options on this page. Changes can potentially make the module unusable.

Identity Provider

Duo

The information in this section will need to be configured by the client in their Claromentis Duo application control panel:

Audience Restriction:claromentis_7157157

Single Sign On URL:https://cipmentis.deml2-ac.s.php/claromentis

Recipient URL:https://cihtis.devml2-ac.s.php/claromentis

Destination URL:https://cihtis.devml2-ac.s.php/claromentis

Attribute Statements:

Name	Value
Login	user.login
Firstname	user.firstName
Surname	user.lastName
Email	user.email

Security Configuration

Technical Contact Name

Administrator

Technical Contact Email

Auth Admin Password

.....

IDP Configuration

IDP Identifier

https://sso-c3dmetadata

Entity ID

claromentis_71557

Name ID Policy

Unspecified

Federation Metadata XML

samnote.phpxLast modified: 06-11-2024 15:54

Save OptionsCancel

Step 3: Getting Service Provider Metadata XML

On the browser navigate to:

https://{yoursystemurl}/custom/loginhandler/simplesaml/www/module.php/saml/sp/metadata.php/claromentis

Replace {yoursystemurl} with your system address for example companyname.myintranet.com

Username: admin

Enter the password by revealing password in **Auth Admin Password**

Rename the file downloaded called **claromentis** by adding .XML extension for example **claromentis.xml**

You will need this file to be uploaded to Duo in Step 4

Duo

Step 4: Protect an Application

📖 **Duo Documentation:** [Create Your Cloud Application in Duo](#)

1. Log on to the Duo Admin Panel and navigate to **Applications → Protect an Application**.

2. Locate the entry for **Generic SAML Service Provider**

3. Service Provider

Service Provider

Metadata Discovery

Metadata XML file

Metadata XML file

Choose file

No file chosen

The file must be an xml format

Metadata Discover: **Metadata XML file**

Metadata XML File: upload file **claromentis.xml**

This XML file is going to populate: ACS URL, Entity ID, Single Logout URL, NameID format, Assertion encryption certificate

Service Provider

Metadata Discovery

Metadata XML file

Metadata XML file

Choose file

claromentis-icp.xml

The file must be an xml format

✔ Successfully populated: ACS URL, Entity ID, Single Logout URL, NameID format, Assertion encryption certificate

Entity ID *

claromentis_7157963848fa3157

The unique identifier of the service provider.

Assertion Consumer Service
(ACS) URL *

Index ⓘ

URL *

isDefault ⓘ

0

https://lqip39.claromentis.dev/custom/loginhandler/si

▼



1

https://lqip39.claromentis.dev/custom/loginhandler/si

▼



2

https://lqip39.claromentis.dev/custom/loginhandler/si

▼



3

https://lqip39.claromentis.dev/custom/loginhandler/si

▼



+ Add an ACS URL

The service provider endpoint that receives and processes SAML assertions.

4. SAML Response

NameIDformat: **urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified**

NameID attribute: **<Username>**

Signature algorithm: **SHA256**

Signing options: Checked both **Sign response** **Sign assertion**

Assertion encryption **Encrypt the SAML assertion**

Certificate: Upload Assertion encryption

Map attributes:

Map attributes

IdP Attribute	SAML Response Attribute
<Email Address>	user.email
<First Name>	user.firstName
<Last Name>	user.lastName
<Username>	user.login

5. Policy

Setup Application Policy, here is an example:

Application policy

ciaromentis-default

This policy applies to all users accessing this application.

Edit | Replace | Unassign

Enabled	New User policy	Prompt unenrolled users to enroll whenever possible.
Enabled	Authentication policy	Require two-factor authentication or enrollment when applicable, unless there is a superseding policy configured.
Enabled	Trusted Endpoints	Allow all endpoints.
Enabled	Duo Desktop	Show restrictions
Enabled	Remembered devices	Don't remember devices for browser-based applications. Don't remember devices for Windows Logon.
Enabled	Authorized networks	No restrictions.
Enabled	Authentication methods	Deny: Duo Desktop authentication, Duo Mobile passcodes, Phone callback. Only allow: Hardware tokens, Verified Duo Push (3-digit verification code), SMS passcodes, Platform Authenticator, Roaming Authenticator.

6. Save configuration.