

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

 $\ \square$ **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** \rightarrow 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



- 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



5. Configure Active Directory

Configure Active Dir	ectory				
d details about your Active	Directory in order to authenticate with Duo Single Sign-On.				
Display Name *	ADI				
	Used only to help you identify the directory within our interface.				
Domain Controller(s) *	Hostname or IP address (1) * Port (1) *				
	ad1.claromentis.net 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:				
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				
	You cannot allow users to reset their expired password with this Transport Type.				
	LDAPS				
	STARTTLS All traffic between Duo and the Authentication Proxy is encrypted. This setting controls how communication between your Active Directory and the proxy is encrypted.				
	The failure destrocks down the resolutions of the year of the second of the communication section your reserve develops and the proxy to story year.				
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	O None				
normalization *	Simple "DOMANNusername", "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				
Expired passivora reset	Users with expired passwords will be blocked from logging in and see an error.				
	Allow users to reset their expired password				
	Users with expired passwords will be instructed to reset their password via the login prompt. A transport type of LDAPS or STARTTLS is required to allow users to reset their expired password				
Proactive password change	Don't allow users to proactively change their password				
change	Users will have to wait until their password has expired to change it.				
	Allow users to proactively change their password Users will be given the option to change their password via the login prompt.				
	A transport type of LDAPS or STARTTLS is required to allow users to proactively change their password				
Session Duration	8 hours				
ocasion paration	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 \rightarrow Custom Login handler \rightarrow 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 Admin > Custom Login Handler > SSO Configuration 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_7157 157 Single Sign On URL: https://lcip mentis.de ml2-acs.php/claromentis Recipient URL: entis.de nl2-acs.php/claromentis Destination URL: https://lci ntis.dev, , , , , ml2-acs.php/claromentis Attribute Statements: Name Value Login user.login Firstname user.firstName user.lastName Surname Email user.email **Security Configuration** Technical Contact Name Administrator Technical Contact Email Auth Admin Password **IDP** Configuration IDP Identifier https://sso-c3d Entity ID claromentis_715 57 Name ID Policy Unspecified Federation Metadata XML

Step 3: Getting Service Provider Metadata XML

Cancel

On the browser navigate to:

sam note.php

Save Options

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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

- $\ \square$ **Duo Documentation:** Create Your Cloud Application in Duo
- 1. Log on to the Duo Admin Panel and navigate to $Applications \rightarrow Protect$ 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 Choose file claromentis-lcip.xml Metadata XML file The file must be an xml format Successfully populated: ACS URL, Entity ID, Single Logout URL, NameID format, Assertion encryption certificate claromentis_7157963848fa3157 Entity ID * The unique identifier of the service provider. **Assertion Consumer Service** Index ① URL * isDefault ① (ACS) URL * 0 https://lcip39.claromentis.dev/custom/loginhandler/si https://lcip39.claromentis.dev/custom/loginhandler/si 2 https://lcip39.claromentis.dev/custom/loginhandler/si 3 https://lcip39.claromentis.dev/custom/loginhandler/si + Add an ACS URL The service provider endpoint that receives and processes SAML assertions.

4. SAML Response

 ${\tt NameID format:} \textbf{urn:} \textbf{oasis:} \textbf{names:} \textbf{tc:} \textbf{SAML:} \textbf{1.1:} \textbf{nameid-format:} \textbf{unspecified}$

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=""> ▼</email>	user.email	\ominus
	<first name=""> ▼</first>	user.firstName	Θ
	<last name=""> ▼</last>	user.lastName	\bigcirc
	<username> ▼</username>	user.login	$\ominus \oplus$

5. Policy

Setup Application Policy, here is an example:

Application policy	claromentis This policy app	s- default lies to all users accessing this ap	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	s 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 device	ces for Windows Logon.
	Enabled	Authorized networks	No restrictions.	
	Enabled	Authentication methods	Deny: Duo Desktop authentication, Duo Mobile passcodes, Phone caliback. Only allow: Hardware tokens, Verified Duo Push (3-digit verification code), SMS Roaming Authenticator.	passcodes, Platform Authenticator,

6. Save configuration.

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