

SOLUTION GUIDE

Integrate Okta with HPE GreenLake SINGLE SIGN-ON CONFIGURATION

Version	Date	Modified By	Notes
2022-12	21 Dec 2022	Matt Sutherland	Initial Release
2023-06	07 Jun 2023	Matt Sutherland	Fixed links to web-based documentation

Solution Guide

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Introduction

This solution guide will provide instructions to integrate HPE GreenLake with Okta for single sign-on.

For best practice configuration within Okta please refer to Okta documentation.

The latest HPE GreenLake Edge-to-Cloud Platform User Guide can be found here: <u>https://support.hpe.com/hpesc/public/docDisplay?docId=a00120892en_us</u>

Prerequisite

Prerequisite:

- HPE GreenLake Account
- Okta Account
- A unique personalised/company Domain with email

An administrator account must exist in HPE GreenLake with the domain for which you would like to establish single sign-on. Invite a new user if your initial administrator is from a different domain.

Enable user federation across HPE GreenLake services and single sign-on for users with claimeddomain accounts. Users without a claimed-domain account can still sign in using their username and password against the local user database.

Setting up Okta

- 1. Login to the Okta dashboard for your organisation
- 2. Select Applications from the left-hand navigation
- 3. Select Create App Integration
- 4. Choose SAML 2.0 as the sign-in method, Select Next
- 5. Assign an App name and optionally add a meaningful logo

Create SAML Integration

1 General Settings	2 Configure SAML	3 Feedback
1 General Settings		
App name	HPE-GreenLake	
App logo (optional)		
	Hewlett Packard Enterprise	
App visibility	Do not display application icon to users	
Cancel		Next

6. Configure the SAML General Settings:

1 General Settings	2 Configure SAML	3 Feedback
A SAML Settings General		What does this form do? This form generates the XML needed
Single sign-on URL 👔	https://sso.common.cloud.hpe.com/sp/ACS.saml2	Where do I find the info this form needs?
Audience URI (SP Entity ID) 🛛 😨	https://sso.common.cloud.hpe.com	The app you're trying to integrate with should have its own documentation on using SAML. You'll
Default RelayState 🛛 🛛 🕢	If no value is set, a blank RelayState is sent	need to find that doc, and it should outline what information you need to specify in this form.
Name ID format 🔞	EmailAddress •	
Application username	Okta username v	
Opdate application Username on	Create and update *	attings
	Show Advanced Se	arringa

Single sign-on URL: <u>https://sso.common.cloud.hpe.com/sp/ACS.saml2</u> Audience URI (SP Entity ID): <u>https://sso.common.cloud.hpe.com</u> Name ID format: EmailAddress

7. Configure the SAML Attribute Statements

ame	Name format	Value	
	(optional)		
Nameld	Unspecified •	user.email	·
firstName	Unspecified •	user.firstName	• ×
lastName	Unspecified •	user.lastName	• ×
hpe_css_attribute	Unspecified •	appuser.hpe_css_attribute	• ×
Add Another	atements (optional)	Filter	
Name	(optional)		

Name	Value
Nameld	user.email
firstName	user.firstName
lastName	user.lastName
hpe_css_attribute	appuser.hpe_css_attribute

- 8. Select Next
- 9. Answer the final feedback question for Okta Support and Select Finish
- 10. After the Application integration workflow has finished Select View SAML setup instructions

SAML Setup

Single Sign On using SAML will not work until you configure the app to trust Okta as an IdP.

> View SAML setup instructions

11. Copy the text from the Optional IDP metadata field at the bottom and save it into an XML file

12. Here is an example of the resulting SAML Settings:

SAML Settings				Edit
GENERAL				
Single Sign On URL		https://sso.comn	non.cloud.hpe.com/sp/ACS.saml2	
Recipient URL		https://sso.comn	non.cloud.hpe.com/sp/ACS.saml2	
Destination URL		https://sso.comn	non.cloud.hpe.com/sp/ACS.saml2	
Audience Restriction		https://sso.comn	non.cloud.hpe.com	
Default Relay State				
Name ID Format		EmailAddress		
Response		Signed		
Assertion Signature		Signed		
Signature Algorithm		RSA_SHA256		
Digest Algorithm		SHA256		
Assertion Encryption		Unencrypted		
SAML Single Logout		Disabled		
SAML Signed Request		Disabled		
authnContextClassRef		PasswordProtect	tedTransport	
Honor Force Authentication		Yes		
Assertion Inline Hook		None (disabled)		
SAMI Issuer ID		http://www.okta	com/\${org externalKey}	
ATTRIBUTE STATEMENTS		1111p.//	soni, qu'eleccemaney)	
Name	Name For	mat	Value	
Nameld	Unspecifie	d	user.email	
firstName	Unspecifie	d	user.firstName	
lastName	Unspecifie	d	user.lastName	
hpe_css_attribute	Unspecifie	d	appuser.hpe_css_attribute	
GROUP ATTRIBUTE STATEM	IENTS			
Name	Name For	nat	Filter	

- 1. Login to HPE GreenLake
- 2. Click Manage from the top navigation
- 3. Click the Authentication tile



Begin providing access to your users by setting up a SAML connection.

Set Up SAML Connection

4. Click Set Up SAML Connection and enter the domain you would like to claim.



Note: You must be logged in as a user from the domain you are claiming. HPE GreenLake does not support adding hpe.com, arubanetworks.com and other free public domain names for public cloud deployments, such as gmail.com, yahoo.com or facebook.com for SAML authorization profiles.

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- Solution Guide Integrate Okta with HPE GreenLake for SSO
- 5. There are four steps in the SSO setup process

itep 1 of 4	
Add Identity Provider De	tails
Add SSO configuration details for your serv S AML SSO Setup Guide .	ice provider.Need help getting set up? Visit the
elect a Configuration Method*	Entity ID*
Metadata File	
Metadata URL	Domain Login URL*
Manual (Enter X.509 Certificate Details)	
IP Metadata File*	Domain Logout URL*
Upload Metadata File	X.509 Signing Certificate*
faximum File Size: 1 MB	

6. Upload the Metadata XML file created in the Okta setup process

Step 1 of 4

Add Identity Provider Details

Add SSO configuration details for your service provider.Need help getting set up? Visit the **SAML SSO Setup Guide**.

elect a Configuration Method*	Entity ID*
🔵 Metadata File	http://www.okta.com/exkAwIBAgko6nMmt5A0
Metadata URL	Domain Login URL*
Manual (Enter X.509 Certificate Details)	https://AwIBAgI/mt5d.okta.com/app/A0AwIBAgI
dP Metadata File*	Domain Logout URL*
	https://not-applicable.com
hpe- (2.2	X.509 Signing Certificate*
greeniake_okra.kini KD)	MIIDqDCCApCgAwIBAgIGAYT0xgayMA0
1aximum File Size: 1 MB	

Next →

7. Select Next

 Configure SAML Settings: Email Address: NameId HPE GreenLake Attribute: hpe_css_attribute First Name: firstName Last Name: lastName Idle Session Timeout: set as required

Step 2 of 4

Configure Settings

Configure SAML attributes and manage idle session timeout settings.

Map SAML Attributes

Get the following fields from your identity provider and map them to the relevant fields below. Learn more about the **mapping attributes**.

Required Attributes

SAML Attribute Name [*]	
Nameld	~
	hpe_css_attribute
	SAML Attribute Name
	firstName
	lastName
	AML Affribute Name

Manage Idle Session Timeout

Specify the amount of time a user can be inactive before a session ends.

Idle Session Time(Minutes) Time is in minutes, Idle time cannot exceed 1,440 minutes(24 hours).

360			



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9. Select Next

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10. Configure a recovery user password. The Recovery User Email is auto generated and cannot be changed. Be sure to write this down along with the Recovery User Password in a safe, secure place. You can alternatively specify a Point of Contact Email address which is used to regain account access if the Recovery User Password is forgotten.

Step 3 of 4

Create a Recovery User

Create a recovery user to access your account in the event SSO fails. Once SSO is configured users will no longer be able to log in with their email and password.

Enable Recovery User		
Recovery User Email Fhis email is auto-generated and ca	nnot be changed.	
lb9b09d0b11ecb23dda2	5c6ddbc41@wifi.academy	
Recovery User Password*		
•••••	•••••	
Show Password		
Point of Contact Email* This will be used to regain access to	your account if you forget your password.	
vip@wifi.academy		
		Ne
Select Next Review the setting Select Download t	s and Select Finish ne Metadata file	Ne
Select Next Review the setting Select Download t SSO Setup Complete Your SSO domain is ready	s and Select Finish ne Metadata file to go! You can edit details at any time after exiting the wizard	Ne 1.
Select Next Review the setting Select Download ti SSO Setup Complete Your SSO domain is ready	s and Select Finish ne Metadata file to go! You can edit details at any time after exiting the wizard	I.
Select Next Review the setting Select Download t SSO Setup Complete Your SSO domain is ready	s and Select Finish ne Metadata file to go! You can edit details at any time after exiting the wizard Download Metadata	l.
Select Next Review the setting Select Download t SSO Setup Complete Your SSO domain is ready Download the m You can do	s and Select Finish he Metadata file to go! You can edit details at any time after exiting the wizard Download Metadata etadata file and import into your Identity Provider (IdP). this at any time from your connection's detail page.	I.

14. Select Exit

15. If you have existing users configured in HPE GreenLake you can send them an email in the next step, otherwise Select Skip For Now



16. This concludes the configuration of HPE GreenLake configuration. Your domain should now be visible under Authentication

Set an authentication method that meets your security requirements.

SAML	Add Domain
Enable user federation across HPE GreenLake services and single sign-on for users with claimed-domain accounts. Users without a claimed-domain account can still sign in using their username and password against the local user database.	
wifi.academy wifi.academy	

17. Select the menu icon on your domain and select View SAML Attribute. Data within this popup will be useful for the role-based configuration within Okta. See: <u>https://support.hpe.com/hpesc/public/docDisplay?docId=a00120892en_us&page=GUID-</u>237A2D36-D5D3-4514-915F-42B2ACDF825C.html

Role Based Authorization

HPE GreenLake supports role-based access control which allows you to define granular access levels to users of HPE GreenLake and the available applications, such as Aruba Central.

The following configuration allows you to configure selectable roles within Okta which define the access available to each user. In the Attribute members field you can create multiple Roles to assign to users.

- 1. Login to the Okta dashboard for your organisation
- 2. Select Directory from the left-hand navigation
- 3. Select Profile Editor
- 4. Select the Profile representing your HPE-GreenLake User
- 5. Select + Add Attribute
- 6. Configure the attribute with the following information

Field	Value
Data type	String
Display name	Role
Variable name	hpe_css_attribute
Description	HPE GreenLake Role
Enum	true
Attribute required	True
User permission	Read Only

7. In the Attribute members you can define multiple roles where the value represents the HPE GreenLake SAML attribute defined at

https://support.hpe.com/hpesc/public/docDisplay?docId=a00120892en_us&page=GUID-237A2D36-D5D3-4514-915F-42B2ACDF825C.html The format is:

{version}#{pcid}:{app cid}:{role_name}:{scope_group_names}:{ALL_SCOPES}

 This attribute needs to be edited to contain information found in the SAML Attribute Data for your domain in step 17 of the HPE GreenLake configuration. The following table shows an example of how to map the attribute to the Aruba Central Administrator role:

Attribute Field	Value	
Version	version_1	
pcid	HPE GreenLake platform Customer ID	
app cid	HPE GreenLake platform ID	
role_name	HPE GreenLake Role	
scope_group_names	Aruba Central Application ID	
ALL_SCOPES	Set appropriate scopes (or leave as ALL_SCOPES)	

Review the following page for any updates to the SAML syntax:

https://support.hpe.com/hpesc/public/docDisplay?docId=a00120892en_us&page=GUID-1F4C67DE-EE99-49D9-B3B4-F63AE5AAB480.html

Some examples of the attribute syntax required to define different roles can be found here: https://support.hpe.com/hpesc/public/docDisplay?docId=a00120892en_us&page=GUID-DC6E44BD-890A-4546-B08B-15748D8FFF1D.html

9. Here is an example of three roles for Aruba Central with matching HPE GreenLake roles:

Aruba Central Administrator

version_1#8ecxb1d09a0c11edd83dda33c1ddbc01:0000000-0000-0000-0000-000000000000:Account Administrator:ALL_SCOPES:888ca888-888b-4ce1-92a9-ex8964888098:Aruba Central Administrator:ALL_SCOPES

Aruba Central Operator

Aruba Central Read-Only

10. The Add Attribute form should look like this after you have completed entering the information:

Data type string Display name Role Variable name hpe_css_attribute Description HPE GreenLake Role Enum Operation Attribute members Display name Variable name Value I Aruba Central Adn version_1#8bcdb5 I Aruba Central Ope version_1#8bcdb5 I Aruba Central Rea version_1#8bcdb5 I Min and I Marutin Rea version_1#8bcdb5	string • Role • hpe_css_attribute HPE GreenLake Role Image: Provide the stribute of the stribute. Select this option to hide sensitive attributes. For example, stary information Image: Provide the stribute of the stribute of the stribute of the stribute. Select this option to properties cannot view the attribute. Select this option to properties cannot were the attribute. Select this option to properties cannot be modified. Select this option to properties cannot were the attribute and edit attribute properties. Select this option to proventies. Select this option to allow users to	• We found some errors. Pl	lease review the form and make corrections.
Display name Role Role Role Role Role Role Role Role	Role hpe_css_attribute HPE GreenLake Role Uefine enumerated list of values Display name Value Aruba Central Adn version_1#8bcdb5 Aruba Central Ope version_1#8bcdb5 Aruba Central Rea version_1#8bcdb5 Aruba Central Rea version_1#8bcdb5 Aruba Central Rea version_1#8bcdb5 + Add Another × Between > min max Yes User personal Hide Users cannot view the attribute. Select this option to to hide sensitive attributes. For example, salary information Read Only Users cannot were the attribute. but attribute properties cannot be modified. Select this option to prevent attribute properties from changing. For example, a title Read Oniv Users can view the attribute and edit attribute properties. Select this option to allow users to	Data type	string *
Variable name hpe_css_attribute Description HPE GreenLake Role Enum Image: Comparison of the enumerated list of values Attribute members Display name Value Image: Aruba Central Adm version_1#8bcdb5 Image: Aruba Central Ope version_1#8bcdb5 Image: Aruba Central Ope version_1#8bcdb5 Image: Aruba Central Ope version_1#8bcdb5 Image: Aruba Central Real version_1#8bcdb5	hpe_css_attribute HPE GreenLake Role Image: Display name Value Image: Aruba Central Adn version_1#8bcdb5 Image: Aruba Central Ope version_1#8bcdb5 Image: Aruba Central Ope version_1#8bcdb5 Image: Aruba Central Rea version_1#8bcdb5 <	Display name 🛛	Role
Description HPE GreenLake Role Enum C Define enumerated list of values Attribute members Display name Value Attribute members Display name Value Attribute Central Adn version_1#8bcdb5 Aruba Central Ope version_1#8bcdb5 Attribute length Between Attribute required Attribute required Ves Scope User personal User permission Hide Users cannot view the attribute. Select th to hide sensitive attribute. For example, s information Read Only Users can view the attribute, but attribute, but attribute	HPE GreenLake Role Image: Define enumerated list of values Display name Value Aruba Central Adn version_1#8bcdb5 × Aruba Central Ope version_1#8bcdb5 × Aruba Central Rea version_1#8bcdb5 × Aruba Central Rea version_1#8bcdb5 × Aruba Central Rea version_1#8bcdb5 × + Add Another × × Between * * min * * max * * Ves User personal * Hide Users cannot view the attribute. Select this option to to hide sensitive attributes. For example, salary information Read Only Users can view the attribute, but attribute properties from changing. For example, a title Users can view the attribute and edit attribute properties. Select this option to allow users to	Variable name 🛛 🕲	hpe_css_attribute
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Image: Aruba Central Ope version_1#8bcdb5 Image: Aruba Central Rea version_1#8bcdb5 Image: Aruba	Image: Aruba Central Ope version_1#8bcdb5 × Image: Aruba Central Rea version_1 information Image: Aruba Central Rea Version_1 Version_1 Image: Aruba Central Rea Version_1 <t< td=""><td></td><td>Aruba Central Adn version_1#8bcdb5</td></t<>		Aruba Central Adn version_1#8bcdb5
Image: Attribute length Image: Attribute length Attribute length Between min and max max Attribute required Yes Scope User personal User permission Hide Users cannot view the attribute. For example, to information © Read Only Users can view the attribute, but attribute required	 Aruba Central Rea version_1#8bcdb5 × + Add Another Between • min and max Yes User personal Hide Users cannot view the attribute. Select this option to hide sensitive attributes. For example, salary information Read Only Users cannot we the attribute, but attribute properties cannot be modified. Select this option to prevent attribute properties from changing. For example, a title Read-Write Users can view the attribute and edit attribute properties. Select this option to allow users to 		Aruba Central Ope version_1#8bcdb5
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max Attribute required Yes Scope User personal User permission Hide Users cannot view the attribute. Select th to hide sensitive attributes. For example, s information Read Only Users can view the attribute, but attribute, bu	max Yes User personal Hide Users cannot view the attribute. Select this option to hide sensitive attributes. For example, salary information Read Only Users can view the attribute, but attribute properties cannot be modified. Select this option to prevent attribute properties from changing. For example, a title Read-Write Users can view the attribute and edit attribute properties. Select this option to allow users to		and
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Scope User personal User permission Hide Users cannot view the attribute. Select th to hide sensitive attributes. For example, s information Read Only Users can view the attribute, but attribute	 User personal Hide Users cannot view the attribute. Select this option to hide sensitive attributes. For example, salary information Read Only 	Attribute required	Yes
User permission Hide Users cannot view the attribute. Select th to hide sensitive attributes. For example, s information Read Only Users can view the attribute, but attribute	 Hide Users cannot view the attribute. Select this option to hide sensitive attributes. For example, salary information Read Only Users can view the attribute, but attribute properties cannot be modified. Select this option to prevent attribute properties from changing. For example, a title Read-Write Users can view the attribute and edit attribute properties. Select this option to allow users to 	Scope	User personal
 Read Only Users can view the attribute, but attribute properties ensure to modified. Select this 	 Read Only Users can view the attribute, but attribute properties cannot be modified. Select this option to prevent attribute properties from changing. For example, a title Read-Write Users can view the attribute and edit attribute properties. Select this option to allow users to 	User permission	 Hide Users cannot view the attribute. Select this option to hide sensitive attributes. For example, salary information
Users can view the attribute, but attribute	Users can view the attribute, but attribute properties cannot be modified. Select this option to prevent attribute properties from changing. For example, a title Read-Write Users can view the attribute and edit attribute properties. Select this option to allow users to		Read Only
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prevent attribute properties from changin	example, a title Read-Write Users can view the attribute and edit attribute properties. Select this option to allow users to		prevent attribute properties from changing. For
example, a title Read-Write	Users can view the attribute and edit attribute properties. Select this option to allow users to		example, a title
Users can view the attribute and edit attri	properties. Select this option to allow users to		Users can view the attribute and edit attribute
properties. Select this option to allow use update attribute properties. For example	update attribute properties. For example, a phone		properties. Select this option to allow users to update attribute properties. For example, a phone

11. Select Save

Note: The Okta interface enumerates in such a way where the Display Value names are difficult to read.

Further granularity in Okta's profile mapping is possible but is outside the scope of this document. Please refer to Okta documentation.

Data type	string
Display name 🛛	Role
/ariable name 🛛 🕢	dev39318555_glcpwifiacademy_1.hpe_ccs_attribute
Description	
Enum	Define enumerated list of values
Attribute members	DisplayValue name Amine AdministratorALL_SCOPES.683da368-66cb-4e8-790a9- ect964766092-Aruba Central AdministratorALL_SCOPES.683da368-66cb-4e8-790a9- ect964766092-Aruba Central AdministratorALL_SCOPES.683da368-66cb- 4e87-790a9-ect964766092-Aruba Central OperatorALL_SCOPES Ani version_1#8bcdbbb9d0b1tecb23dda25e6ddbc41:00000000 version_1#8bcdbbb9d0b1tecb23dda25e6ddbc41:00000000 Amine Control Control Control Central C
Attribute length	Between - min and max
Attribute required	🗹 Yes
Scope	None
Mutability	READ_WRITE

- 12. To assign one of the new roles to a user, select Directory from the left-hand navigation
- 13. Select People
- 14. Select a user for whom you wish to edit the HPE GreenLake Role
- 15. Select Assign Application
- 16. Select Assign next to your HPE-GreenLake application

Assign Applications	×
Q Search	
HPE-GreenLake	Assign

17. Select the appropriate Role from the user from the drop-down menu

Assign Applications			×	
User Name	r1@wifi.academy			
Role	Aruba Central Admi 🔺			
	Aruba Central Administrator	ck	Cancel	
	Aruba Central Operator Aruba Central Read-Only			

- 18. Select Save and Go Back
- 19. Select Done
- 20. The user should now be able to login via the HPE GreenLake SSO sign-in workflow

Connecting to Hendent Rockard Sign in with your WIFI Academy account to access HPE- GreenLake
okta
Sign In Username
rl@wifi.academy
Password
••••••
Keep me signed in
Sign in
Forgot password? Help

Fast Sign-in to an HPE GreenLake Application

It may be convenient to have rapid access to an application within HPE GreenLake, such as Aruba Central. It is possible to configure faster access to a particular application by setting the Default Relay State in the Okta SAML settings and then using the Okta App Embed Link.

With this configuration you will be able to browse to the Okta Embed Link, sign-in and then be forwarded straight to Aruba Central.

- 1. Login to the Okta dashboard for your organisation
- 2. Select Applications from the left-hand navigation then select Applications once again from the expanded menu
- 3. Select the HPE-GreenLake application from the list
- 4. Select General
- 5. Select Edit in the SAML Settings info panel
- 6. Select Next at Step 1
- 7. Edit the Default RelayState field to include the portal URL for your Aruba Central region. find the domain name here (include https:// in front of the domain name):

https://www.arubanetworks.com/techdocs/central/latest/content/nms/devicemgmt/communication_ports.htm

A SAML Settings	
General	
Single sign-on URL 🔞	https://sso.common.cloud.hpe.com/sp/ACS.sami2
	✓ Use this for Recipient URL and Destination URL
Audience URI (SP Entity ID) 🛛	https://sso.common.cloud.hpe.com
Default RelayState 👔	https://portal-apacsouth.central.arubanetworks.com
	If no value is set, a blank RelayState is sent
Name ID format 🛛 🔞	EmailAddress •

- 8. Select Next
- 9. Select Finish on the Okta Feedback step if applicable
- 10. Select General again and scroll to the bottom of the page
- 11. Copy the App Embed Link
- 12. Users should be able to login to the Okta portal using this Embed Link and be forwarded directly to Aruba Central after login if they have been assigned access.



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