

Pulse Policy Secure

Steel Belted Radius Server to Pulse Policy Secure

Migration Guide

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Steel Belted RADIUS (SBR) to Pulse Policy Secure Migration Guide

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Executive Overview

Pulse Secure is a leader in providing the industry's best Next-Gen Network Access Control solutions. Pulse Policy Secure (PPS) with inbuilt RADIUS server offers scalable 802.1X deployment with Role-based access control that reduces network threat exposure and mitigates risks to zero-trust security.

PPS migration tools enable seamless deployment of authentication mechanisms, allowing customers to easily migrate from Steel Belted Radius (SBR) to PPS. Migration tools also provide customers with the flexibility of migrating 802.1X/RADIUS, MAC Address Authentication configurations.

PPS migration helps customers to achieve contextual based endpoint visibility, a much stronger security posture with unified access policies that extend from BYOD systems to their perimeter defenses. Customers are also going to benefit from comprehensive NAC solutions, Visibility, Policy Management, Sponsored-based Guest Access, BYOD/Mobility, Endpoint Compliance, Ecosystem Integrations and Zero-Trust Internet of Things (IoT) Security.

Introduction

This document provides detailed information about the migration steps from SBR to Pulse Policy Secure (PPS). The document captures the manual migration approach for the 802.1X/RADIUS, MAC Address authentication use cases. Export the configurations from SBR and then import them into PPS. The de fault configurations are created for smooth migration.

The migration procedure starts with comparing the configuration settings from SBR and then configuring on PPS. Ensure that you understand the configuration flow of Pulse Policy Secure and verify them against the access policies of SBR.

PPS supports role-based access control. The level of access to the network is determined based on the user roles and various other attributes. For example, an individual with the engineer role in an organization might be allowed access to the certain company's resources, but blocked access to employee records.

However, SBR is profile-based access control. The access is determined based on the profiles associated with Users or RADIUS clients or Location groups. The access is determined based on the check properties of the request against the configured checklist of attributes.

🕖 Note:

Ensure that you configure the PPS based on the configuration flow for easy migration. The equivalent SBR terminologies for configuration is documented in RADIUS Configuration Migration and MAC Address Authentication Migration sections. Plan your migration carefully to ensure smooth migration and to decrease any risk of migration failure.

Supported Migration Use cases

You can migrate all the RADIUS configurations such as Location groups, RADIUS Clients and Profiles and MAC addresses configurations from SBR to PPS.

RADIUS Configuration Migration

The configuration flow for RADIUS based authentication on PPS and the equivalent configuration on SBR is described in the below table. The examples documented in this guide is based on SBR latest Release version.

Table 1 describes the recommended configuration flow for PPS

Table 1: Steps to Configure				
Step	Configuration on SBR	Equivalent configuration on PPS		
Step 1	Configure Users > Native > Add Native Users.	Configure Authentication Server		
Step 2	SBR profile-based authentication.	Configure the Authentication Realm, Role mapping rules and Sign-In Policy.		
Step 3	Configure SBR > Location Groups.	Configure the Location Group		
Step 4	Configure SBR > Radius Client	Configure a RADIUS client		
Step 5	Configure SBR > Profiles.	Create RADIUS return attribute policy		

Exporting SBR XML Configuration

To export the SBR configurations:

- 1. Run the SBR Administrator.
- 2. Choose File > Export.
- 3. In the Export dialog, select the information to export. Each tab in the dialog lists exportable items of a particular category. For each category, select the appropriate tab and click each item you'd like to export. To select a contiguous range of items, select the first item in the range, hold down the Shift key, and click the last item in the range.
 - To select a non-contiguous set of items, hold down the Ctrl key as you click each item you want.
 - To select all items in a category, **click All**.
 - To select all items in all categories, click Select All.

Figure: Export

File Edit Tools Web Help			
🕑 Refresh 🎱 Print 😋 Add 📗	Edit 🚱 Delete		
Steel-Belted Radius	Name /	Profile	
RADIUS Clents Location Groups Users Domain SecuriD TACACS+ Unix Profiles Tunnels Tunnels Name Parsing Address Pools IP IPX Administrators Authentication Policies	USERI	Export Select Rems, then press OK to select export file. RADIUS Clients Location Groups Users Profiles Proxy Targets Tunnels Address Pools Other Data Access Authentication Policies Name Parsing Reports Settings	OK Cancel Select Al

4. After you have selected the items to export, click OK.

ixport To XML	File				2
Save in:	🔒 My Docume	ants	V 0	đ 🕫 🖽-	
My Recent Documents Desktop My Documents	FINDME				
My Computer	File name:			*	Save
63	Save as type:	XML Files		~	Cancel
Mu Network					

5. In the Export to XML file dialog, enter the file name and click Save.

Importing SBR XML file to PPS

To import the SBR XML file to PPS from PPS Admin console:

- 1. Select Maintenance > Import/Export > XML Import/Export > Import SBR Configuration.
- 2. Click **Browse** and browse the SBR xml file which needs to be imported.
- 3. Click Import.

Import/Export > XML Im	Import/Export > XML Import/Export > Import SBR Configuration				
Import SBR Confi	guration				
Configuration	User Accounts	XML Import/Export			
Export Export Univ	rersal Import Impor	t SBR Configuration			
❤ Import					
To import SBR conf	ïg, select a valid XML o	data file, then click Import.			
* XML data file: B	* XML data file: Browse No file chosen				
Import					

Authentication Server on PPS

PPS provides a seamless migration from SBR server to PPS server. Once it is migrated it can be easily paired with an organization's other identity databases, such as LDAP, RADIUS server and Active Directory (AD) to leverage existing credentials.

Import the SBR xml file to PPS. After importing the file:

- Select Authentication > Authentication Server. You can see the imported file on PPS authentication server. Local Auth Server named as SBRMigrationAuthServer is created for SBR migration.
- 2. Auth Server will be created with default values.
- 3. Password storage type will be set to clear text by default.
- 4. Password must be different from user name and New Passwords must be different from previous password options will be disabled.

Authentication Servers New Server... Delete. New: (Select server type) records per page 10 Search: Authentication/Authorization Servers Туре Administrators Local Authentication Certificate Authentication Certificate Server Guest Authentication Local Authentication Guest Wired Authentication MAC Address Authentication SBRMigrationAuthServer Local Authentication System Local Local Authentication

Figure – Authentication Server

Figure – Authentication Server Settings

Auth Servers > SBRMigrationAuthServe	er > Settings
Settings	
Settings Users	Admin Users
*Name: SBRMigrationAuthServer	Label to reference this server.
❤ Password Options	
Minimum length: 10	characters
Maximum length: 128	characters
Dessured must have at la	
Password must have at le	aast digits
Password must have at le	1 letters
_	mix of UPPERCASE and lowercase letters
Password must be differe	
I new passwords must be	different from previous password
Password Storage Type	
 Strong Hash Nate: Highly secure but not a 	ompatible with some of the authentication protocols i.e. CHAP, EAP-MD5 and MS-CHAP (V1/V2)
Legacy Hash This option ca Nata: Compatible with MSCH.	an only be set during create AP(r1/z) although less secure
Note: Compatible with MSCH/	Ar(v1/z) allhough less secure
	option can only be set during create
	entication protocols i.e. CHAP, EAP-MD5, MSCHAP(v1/v2) although not secure
✓ Password Management	
Allow users to change the	ir passwords
Force password char	ge after days
Prompt users to	change their password days before current password expires
Note: Use options on the Administr	ators/Users > Authentication > [Realm] > Authentication Policy > Password page to specify which realms should inherit the server's password management capabilities
✓ Account Lockout	
Enable Account Lockout f	
Maximum wrong password a	
Account Lockout period (mir	nutes): 10 (10 and above)
❤ Guest Access	
Guest User Account Manag	ers
	Int Managers to administer Guest Accounts _{Configure} system GUAM settings
Instructions for Guest User	Instructions displayed for guest users creation and updation. You can use , , , , , and , and there bags to format the text.
Account Manager:	
Maximum Account V	alidity Period: 24 Set the Guest Account length limit (end time minus start time) in hours. This is valid for guests created by Guest Admin. Does not impact existing user expirations.
Guest Self-Registration	
Send guest user credentials v	
	EmailConfigure SMS/Email settings
 Show credentials on scree Enable Sponsored Guest 	en after guest completes registration
	y Period for Self Registered Guests: 1 Set the Guest Account length limit in hours. This is valid for self registered guests. Does not impact existing user expirations.
Note: To enable Guest Self-Registr	ation navigate to Signing In > Sign-in Policies > User URLs > [url] > Configure Guest Settings
Common configuration for	Quart llass Assaunt Managara and Quart Palf Pagistration
Guest User Name Prefix:	Guest User Account Managers and Guest Self-Registration Profix applied to auto-generated user names.
Guest User Info Fields:	Pretix applied to auto-generated user names.
Casse over mor idius.	International result of groups due internation, one real per and, in orderinged. Title Company name
	Company name Sponsor
✓ Server Catalog	
Attributes	
Save Changes Reset	
* indicates required field	

User Creation on PPS

The Users are created on SBRMigrationAuthServer.

- Password will be stored in plain text.
- Default password will be *pulsesecure*.
- User must change password if next sign-in flag is enabled.
- If user in SBR contains attributes, it will added into attribute table of that user in PPS.
- If user in SBR has a profile associated with it, then attributes in the associated profile will be added into attribute table of that user in PPS.

Figure - Users

Auth Servers > SBRMigrationAuthServer > Users								
User	s							
Settings Users Admin Users								
Import	Import Users from CSV file: Browse No file chosen Import Overwrite Users: 📄 Note: Enabling the checkbox will overwrite the user having the same user name.							
Show	user	s named: *	Show 200 users Update					
Nev	New Delete Unlock Page 1 of 1 (< > >)							
Image: Second								
					Date&Time	IPAddress	Agent	Status
		0021ccc236a1	Unspecified Name	Guest user				
		0021ccc236a2	Unspecified Name	Guest user				
		0021ccc236b1	Unspecified Name	Guest user				
		0021ccc236b2	Unspecified Name	Guest user				
		0021ccc236c1	Unspecified Name	Guest user				
		005056836480	Unspecified Name	Guest user				
	after Unspecified Name Guest user							
		check	Unspecified Name	Guest user				
		hdarshan	Unspecified Name	Guest user				
		kaialkr	Unspecified Name	Guest user				

Sign-In Page on PPS

Select **Authentication > Signing In > Sign-In Pages**. You can see the SBR Sign-In Page created by default. Figure -Sign-In Pages

Signing	Signing in > Sign-In Pages					
Sign-	n Pages					
Sig	n-In Policies Sign-In Pages Sign-In Notifications Authentication Protocol Sets					
New	Page Upload Custom Pages Delete					
10	✓ records per page	Search:				
	Sign-In Page Type					
	SBRMigration Sign-In Page Standard page					
	Default Sign-In Page	Standard page				

Sign-In Policy

Select Authentication > Sign-In Policies.

The Sign-In policy user url */SBR/ with sign-in page as SBR Sign-In Page and Authentication Realm(s) as SBRMigRelam (802.1X) is created by default.

Figure -Sign-In Policies

Signing	Signing In > Sign-In Policies						
Sign-	in Policies						
Si	gn-in Policies Sign-in Pages Sign-in Notifications	Authentication Protocol Sets					
Re	strict access to administrators only						
On	ly administrator URLs will be accessible. Note that Administrators can attemp rning: Enabling this option will immediately terminate all user sessions.	t to sign in even if all rules on this page are disabled.					
New	v URL Delete Enable Disable 🔶		Sa	ve Changes			
	Administrator URLs	Sign-In Page	Authentication Realm(s)	Enabled			
	*/admin/	Default Sign-In Page	Admin Users	~			
	User URLs	Sign-In Page	Authentication Realm(s)	Enabled			
	*/SBR/	SBRMigration Sign-In Page	SBRMigrationRealm (SBRMigration802.1X)	~			
	*/guest/	Default Sign-In Page	Guest (Guest)	~			
	*/guestadmin/	Default Sign-In Page	Guest Admin (N/A)	~			
	*/certauth/	Default Sign-In Page	Cert Auth (Cert Auth)	~			
	*/	Default Sign-In Page	Users (802.1X)	~			
	*/guestsponsor/	Default Sign-In Page	Guest Sponsor (N/A)	~			

Authentication Protocol Sets

Select **Signing In > Authentication Protocol Sets**. **SBRmigration802.1X** is created by default.

Figure – Authentication Protocol Set

Signing In > Authentication Protocol Sets Authentication Protocol Sets					
Si	ign-in	Policies Sign-in Pages Sign-in Notifications Authenticat	ion Protocol Sets		
Nev	w Aut	thentication Protocol Duplicate Delete Restore Factor	ory Default		
10 • records per page Search:					
		Name	Authentication Protocol	PEAP	TTLS
	1	802.1X System created default authentication protocol required for UAC agents	EAP-TTLS EAP-PEAP	EAP-JUAC EAP-MS-CHAP-V2	EAP-JUAC PAP MS-CHAP-V2 EAP-MS-CHAP-V2 EAP-GenericTokenCard
	2	802.1X-Phones System created default authentication protocol for phones	EAP-MD5-Challenge EAP-TLS		
	3	Guest System created authentication protocol for guest users	PAP CHAP		
	4	Cert Auth System created authentication protocol for Certificate Authentication	EAP-TLS EAP-TTLS EAP-PEAP	EAP-JUAC EAP-TLS	EAP-JUAC EAP-GenericTokenCard
	5	SBRMigration802.1X	EAP-PEAP EAP-TTLS PAP CHAP EAP-MD5-Challenge	EAP-JUAC EAP-MS-CHAP-V2	EAP-JUAC PAP MS-CHAP-V2 EAP-MS-CHAP-V2 EAP-GenericTokenCard

Roles

Select Users > User Role > User Authentication Role. You can see the SBRMigRole user role created by default.

-igu	re – SBR Migration Role						
Jser Role Roles	es > Roles						
New F	Role Duplicate Delete Default Option	15					
	records per page		0				
10			Search				
	Role			Ena	abled set		
			Session Options	ions	UAC Agent	Host Enforcer	Agentless Access
			Sessic	UI Options	à	Host	Acces
	Guest System created Guest Users role.		~	~			~
	Guest Admin System created Guest Admin role.		~	~			~
	Guest Sponsor		~	~			~
	System created Guest Sponsor role. Guest Wired Restricted		~	~			~
	System created Guest Wired Restricted role.						
	SBRMigrationRole System created Users role.		~	•	ř		
	Users System created Users role.		~	*	~		
				Dec. D	revious	1	Next →
		_			641003		YOAL
New F	Role Duplicate Delete Default Option	IS					
	Roles > SBRMigrationRole > General > Overview						
Ove	rview						
Ģ	General Agent Agentless						
Ove	rview Restrictions Session Options UI Opt	ions					
* N		SBRMigrationRole					
	ame: escription:						
		System created Users role.					
		Save Changes					
v 0	ptions						
	nese settings are not specified by any roles assigned to the u	ser, the settings specified in Default Options will be used.					
	9 Session Options 9 UI Options	(Edit)					
	Enable Guest User Account Management Rig	(Edit)					
	Enable Sponsored Guest User Account Management Ag						
	ve Changes						
* indica	ates required field						

User Realms

Select **Users > User Realms > User Authentication Realms**. You can see the **SBRMigrationRealm** realm. Figure - Realm

User Re	User Realms > User Authentication Realms						
User	User Authentication Realms						
View:	Overview v for all realms v Update						
New	Duplicate Delete						
10			Search:				
a Authentication Realm Servers Dynamic Policy Evalu							
	Cert Auth	Primary: Certificate Authentication	Disabled				
	Guest	Primary: Guest Authentication	Disabled				
	Guest Admin	Primary: Guest Authentication	Disabled				
	Guest Sponsor Primary: Guest Authentication Disabled						
	SBRMigrationRealm Primary: SBRMigrationAuthServer Disabled						
	Users	Primary: System Local	Disabled				
	Users	Primary: System Local	Disabled				

SBRMigrationRole is added in the role mapping rules.

User F	er Realms > SBRMigrationRealm > Role Mapping										
Role	ole Mapping										
G	General Authentication Policy Role Mapping										
_	pecify how to assign roles to users when they sign in. Users that are not assigned a role will not be able to sign in. New Rule Duplicate Delete • •										
	Image: When users meet these conditions assign these roles Rule Name Stop										
	□ 1. username is "" → SBRMigrationRole SBRMigrationRoleMapping										

Network Location Group Configured on SBR

Select **Steel-Belted Radius > Location Groups** to view the location groups.

Figure – SBR Location Group

🕄 Steel-Belted Radius Global Enterpri	dition (SBR-SRV)	
File Edit Tools Web Help		
🕝 Refresh 🜑 Print 🖸 Add 🕒 Edit 😒	lete	
Steel-Beked Radius RADIUS Clents Control Groups Ourses Ourses Durses SecuriD SecuriD CaCACS+	Id RADIUS Location Group kame: LOC_GROUP_1 Description:	
Unix Profiles Proxy Targets Unnels Unnels Name Parsing Address Rools	Lise Profile: Attribute Combination Merge Precedence Override RADIUS Client	
IP IPX Administrators	wailable Clients:	Current Clients:
Authentication Policies Order of Methods EAP Methods Certificates Crutificates Trusted Root Certificates Certificates Reject Messages Replication Replication Other Statistics	Name IPV4 Address IPV6 Address Make or Mod CANV> - Standard R. - Standard R. ISCO 3850 10.204.89.148 Cisco IOS 11. ISCO 2650 10.204.89.148 Cisco IOS 11. ISCO 2650 10.204.89.10 Cisco IOS 11. DARSHAH-U-I. D.96,200.92 - Standard R. ASRSHAH-U-I. III.024.91.92 - Standard R. UMMY 1.1.1.8 - Standard R. MINTERD 10.204.89.20 - Standard R. K III - Standard R.	
• System • RADIUS Clients • RADIUS Proxy Targets		OK Cancel

Location Group on PPS

Select Endpoint Policy > Network Access > Location Group.

Location group contains */SBR/ in sign-in policies. Default **SBRMigLocGroup** is created for those Radius Client which is not using any profile and location group.

Figure: Location Group

Vetworl	Acce	ess > Location Group							
Locat	ion G	Group							
RA	DIUS	Dictionary RADIUS Vendor Location Group	RADIUS Client	RADIUS Attributes	Network Infrastructure Device	SNMP Enforcement Policies			
A location group policy logically groups network access devices by associating the devices with specific sign-in policies. New Location Group Duplicate 10 records per page Search:									
		Name	Sign-in Policy	MAC Aut	h Realm	RADIUS Clients			
	1	Default System created default location group.	*/						
	2	Guest System created location group for guest users	*/guest/						
	3	Guest Wired System created location group for wired guest users	*/guest/	Guest W	red				
	4	Cert Auth System created location group for Certificate Authentication	*/certauth/						
	5	SBRMigrationLGDefault	*/SBR/			SBRMigrationRadiusClientPCS-70, SBRMigrationRadiusClientP , SBRMigrationRadiusClientP SBRMigrationRadiusClientP SBRMigrationRadiusClientP SBRMigrationRadiusClientP SBRMigrationRadiusClientC SBRMigrationRadiusClientD SBRMigrationRadiusClientD SBRMigrationRadiusClientD SBRMigrationRadiusClientJ SBRMigrationRadiusClientM SBRMigrationRadiusClientK			
	6	SBRMigrationLGBNG	*/SBR/						
	7	SBRMigrationLGBNG_OVERRIDE	*/SBR/			SBRMigrationRadiusClientDUMMY			
	8	SBRMigrationLGBNG_PROFILE	*/SBR/						

RADIUS Client Configured on SBR

Select Steel-Belted Radius > RADIUS Clients to view the configured RADIUS client.

Figure SBR RADIUS client

Steel-Belted Radius	Add RADIUS Client			×
RADIUS Clients Location Groups				0
Users	Name:	CLIENT_1		Any RADIUS Client
ONAtive	Description			
🗢 Domain	Description:			
SecurID TACACS+	IPV4 address:	10.204.60.70		
Unix	IPV6 address:			
Profiles	IPV6 address:			
Proxy Targets	Range:	1		
- O Tunnels	Shared Secret:			
\varTheta Tunnels	Sildred Secree.			
Name Parsing		Unmask		
Address Pools				
• IP	Make or model:	- Standard Radius -	•	
O IPX Administrators	Address pool:		*	View
- O Authentication Policies		1		
Order of Methods	Location Group:			🔁 View
O EAP Methods	Profiles			
• Certificates	Use Profile:			🔁 View
Trusted Root Certificates	_ oserione.			- non
CDP Web Proxy Configuration	Attribute Combin			
 Reject Messages Replication 		Merge Precedence		
	Merge	O User		
System	🔿 Override	C RADIUS Client		
RADIUS Clients				
RADIUS Proxy Targets				
IP Address Pools				
- O Reports	Advanced		-	
• Current Sessions	Use different s	hared secret for Accounting	Edit	
• Auth Logs	🔲 Assume down i	if no keepalive packets after		seconds
Locked Accounts	Horano domin	e no noopoero poenoco di col		3000103
Filters				
		OK Ca	ancel	

Creating a new RADIUS Client on PPS

Select Endpoint Policy > Network Access > RADIUS Client.

For example, SBRMigrationRadiusClientPPS is configured as a RADIUS client.

Figure – RADIUS client

	k Acci	ess > RADIUS C	lient						
ADI	US	Client							
RA	ADIUS	S Dictionary	RADIUS Vendor	Location Group	RADIUS Client	RADIUS Attributes	Network Infrastructure Device	SNMP Enforcement Policies	
RAD	IUS o	client policy spe	cifies the information rec	quired for a 802.1X networ	k access device to conne	ect as a RADIUS client	t of the Pulse Policy Secure.		
New	V RAD	DIUS Client	Duplicate	Enable Disable	Delete				
10		✓ records p	er page					Search:	
		Name 🔺			IP Address	Range	Make	Group	Enabled
	1		RadiusClientCISCO 290 d client 88.10	60	IP Address		Make - Standard Radius -	Group SBRMigrationLGDefault	Enabled
	1	SBRMigration This is Cisco rad				1			
	1 2 3	SBRMigration This is Cisco ra SBRMigration	d client 88.10			1	- Standard Radius -	SBRMigrationLGDefault	~

• Note: If RADIUS client is not using profile and location group then the default Location group is used. If a RADIUS Client is using Profiles then:

- If the profile is used by any of Location group: then will associate the RADIUS client with that location group
- If profile is not used by any location group, then a location group with name "SBRMigProfile<ProfileID/Name>" is created on PPS which will be associated to RADIUS Client.

RADIUS Return Attribute on SBR

Select Return List and note down the attribute and value.

File Edit Tools Web Help					
🕲 Refresh 🔘 Print 🔂 Add 🐚 Edit 🌘	Delete				
Steel-Belted Radius	Name /		Profile		
RADIUS Clients	USER I				
Location Groups					
🗐 🕘 Users					
🗢 Native		<i>(</i>			
🗢 Domain		Edit Native User			×
I SecurID					0
TACACS+		Name:	USER1		
Inix					
O Profiles		Description:	-		
Proxy Targets					
🛓 🛛 🔾 Tunnels		Password:	•••••		Validate
- O Tunnels			🔲 Unmask 📄 Store hash	of password	
🗢 Name Parsing		Attributes			
🛓 📀 Address Pools		Attributes			
🗢 IP		Use Profile:		👻 🗖 View	
- O IPX					
Administrators		Check List Retur	'n List		
Authentication Policies		Attribute	Value	Echo	
• Order of Methods		3GPP-CG-Addre			
- O EAP Methods		3GPP-CG-Addre	ess 1.0.0.2		
• Certificates					0
Irusted Root Certificates					
- OCP Web Proxy Configuration					C
🔲 🔵 Reject Messages					
Replication					
Statistics					
🔴 System					
• RADIUS Clients		Add	Edit Delete		
🔴 RADIUS Proxy Targets					
IP Address Pools					
- O Reports		Maximum concurr	ect connections		
🔴 Current Sessions				Grand	
- O Auth Logs			ОК	Cancel	
Locked Accounts			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		

Configuring RADIUS Return Attribute Policies on PPS

- 1. Select Endpoint Policy > Network Access > RADIUS Attributes > RADIUS Return Attributes.
- 2. Click Return Attributes tab to see the configured policies.

For example, SBRMigrationRadRetAttrdef

Figure – Return Attributes

RADI	IUSI	Retu	ırn Attributes						
R/	ADIUS	S Dict	ionary RADIUS Vendor Loc	ation Group RADIUS C	Client RADIUS	Attributes Network Infrastru	cture Device SI	NMP Enforcement Policies	
Retur	rn Attri	ibutes	Request Attributes Attribute Logging						
how	polici	ies th	at apply to: All roles	Update					
	DIUS r t actio		attributes policy specifies the return list att	tributes to send to an 802.1X i	network access device,	such as which VLAN endpoints r	nust use to access the	network. If no policy applies, Op	en Port is the
	v Poli		Duplicate Delete 🔶	•				Sa	ve Changes
				_					
		•	Policies		ACL Settings	Attributes	Location Group	Inter	face Applie to role
	1.		SBRMigrationRadRetAttrTEST		N/A	Cisco-AVPair=url- redirect=https://10.96.69.26 Cisco- AVPair=ip:inacl#161=deny ip any any	SBRMigrationLGRAI SBRMigrationLGBN0		All roles
	2.		SBRMigrationRadRetA	-	N/A	Cisco- AVPair=ip:inacl#141=permit ip any any Reply-Message=123456789	SBRMigrationLGBN	G_PROFILE N/A	All roles
	3.		SBRMigrationRadRetAttrS/		N/A	Tunnel-Medium-Type=6 Tunnel-Private-Group- ID="65" Tunnel-Type=13	SBRMigrationLGProf	SACHIN N/A	All roles
	4.		SBRMigrationRadRetAttrRC1_PROFILE		N/A	Filter-Id=limited	SBRMigrationLGProt	RC1_PROFILE N/A	All roles
	5.		SBRMigrationRadRetAttrLG1_PROFILE		N/A	Filter-Id=compliant.in	SBRMigrationLGLG1	PROFILE N/A	All roles
	6.		SBRMigrationRadRetAttrOpenPort		N/A	OpenPort	SBRMigrationLGBN	G N/A	All

Note:

- If Location group is using profile then will use those location group into profile.
- If RADIUS Client is using profile and no location group is using that profile, then the Location Group used during the creation of RADIUS client will be attached to that profile.
- If profile is not used by any location group or profile then it will not be imported.
- Only PPS supported attributes will be imported. For example, if SBR supports attribute_a, attribute_b and attribute_c and PPS supports attribute_a and attribute_b then profile will contain only attribute_a and attribute_b.

MAC Address Authentication Migration

Importing MAC Address from SBR into PPS

- 1. The username should be in MAC address format (':', '-' or no separator). For example, 00-11-85-bb-8c-67, 00:11:85:bb:8c:66 or 001185bb8c69
- 2. For MAC user, password will be username (Mac address.) by default.
- 3. Password is stored in plain text by default.
- 4. User must change password in next sign-in option will be disabled by default.

Auth S	Auth Servers > SBR/ligrationAuthServer > Users											
Users												
Settings Users Admin Users												
Import Users from CSV file: Browse No file chosen Import Overwrite Users: Note: Enabling the checkbox will overwrite the user having the same user name.												
Show users named: * Show 200 users Update												
New Delete Unlock Page 1 of 1 < > >												
	1	Username 🔺	Name	Usertype	Last Sign-in Statistic							
					Date&Time	IPAddress	Agent	Status				
		0021ccc236a1	Unspecified Name	Guest user								
		0021ccc236a2	Unspecified Name	Guest user								
		0021ccc236b1	Unspecified Name	Guest user								
		0021ccc236b2	Unspecified Name	Guest user								
		0021ccc236c1	Unspecified Name	Guest user								
		005056836480	Unspecified Name	Guest user								
		after Unspecified Name		Guest user								
		check	Unspecified Name	Guest user								
		hdarshan	Unspecified Name	Guest user								
		kaialkr	Unspecified Name	Guest user								

Figure –MAC Address Users

References

For more information on 802.1X authentication and troubleshooting, see <u>802.1X Authentication with</u>.