

ActivIdentity[®] ActivID[™] Card Management System and Juniper[®] Secure Access

Integration Handbook

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1.0 Introduction

The Juniper® Networks SA Series SSL VPN Appliances enable remote and mobile employees, customers, and partners to gain secure access to corporate Virtual Private Network resources and applications. Providing secure access via a VPN over existing Internet connections requires strong, two-factor authentication to protect resources. The ActivIdentity solutions that work with Juniper Networks incorporate SSL VPN solutions with versatile, strong authentication that is flexible, scalable, and simple to manage.

1.1 Scope of Document

This document explains how to configure the ActivIdentity® ActivID[™] Card Management System Appliance and Juniper Networks Secure Access (SA) Series of appliances to enable client authentication via certificate and smart cards.

1.2 Prerequisites

- ActivIdentity ActivID CMS Appliance installed and Root CA certificate created.
- Juniper SA version 7.1.x installed and configured.
- Users have smart cards issued by the CMSA Appliance.



2.0 Juniper Secure Access Configuration

This chapter describes how to configure Juniper Secure Access for use with ActivIdentity CMS. When a user signs into a Juniper SA Series appliance, the user specifies an authentication realm, which is associated with a specific authentication server. The Juniper SA Series appliance forwards the user's credentials to this authentication server to verify the user's identity.

You will create a new authentication server (a certificate server).

2.1 Procedure 1: Create New Certificate Server Instance

To define a certificate server instance, perform the following steps (this will create a new certificate server instance on the SA Series SSL VPN appliance).



Getting Started

 In the Admin console, expand the Authentication menu, and then click Auth. Servers.

Auth	entication Server	s	
New:	Certificate Server	•	New Server

2. From the **New** drop-down list, select Certificate Server, and then click **New Server**.

The following dialog is displayed.



Settings Users				
Name:	Cert_Appliance			Label to reference this server.
User Name Template:	<certdn.cn></certdn.cn>			Template for constructing user names from
				well as variables for substitution. Variables s ons. All of the certificate variables are availa
	Examples: <certdn.cn> <certattr.serialnumber> <certattr.altname.cocc></certattr.altname.cocc></certattr.serialnumber></certdn.cn>	Certific Where	xxx can be: The Email alte The Principal N	er
	<certdntext></certdntext>	The co	etc mplete subject l	DN
	cert- <certdn.cn></certdn.cn>			ed by the first CN from the subject DN
User Record Synchronizat	tion			
Enable User	Record Synchronizati	on		
Logical Auth	Server Name:			
Save Changes?				

- **Name**—Specify a name to identify the server instance.
- User Name Template—Specify the appropriate template for constructing user names.
- 3. Click Save Changes.

2.2 Procedure 2: Define Juniper User Role(s)

A user role is an entity that defines user session parameters, personalization settings, and enabled access features.

- Users		
User Realms	+	Users
User Roles	Þ	User Roles
Resource Profiles	*	New User Role

- 1. From the Admin console, expand the Users menu, point to User Roles, and then click New User Role.
- 2. Configure the new user role according to your requirements.



Roles > Users				
General Web Files SAM Telne	t/SSH Terminal Service	s Virtual Desktops	Meetings	Network Connect
Overview Restrictions VLAN/Source IP	Session Options UI Op	ions		
Source IP Browser Certificate Host	Checker			
 Only allow users with a client-side certificate restrictions or condition <u>Users Authentication</u> page. You can optionally require specific 	ns for this role, you must	first choose to remen		
Certificate field (example "cn")	Expected value			
		Add		
Save Changes				
ton all and a present to the	man another	Anna and	- and the second	man anna

- 3. Use the "certificate" as a restriction. On the General tab, click Restrictions -> Certificate.
- 4. Select the option to only allow users with a client-side certificate signed by the CA to sign in.
- 5. Click Save Changes.

2.3 Procedure 3: Define Juniper Authentication Realm

An authentication realm specifies the conditions that users must meet in order to sign in to the SA Series appliance. A realm consists of a grouping of authentication resources.

Users	700	Custom Local
User Realms	Þ	User Realms
User Roles	Þ	New User Realm
User Roles	- '	New Oser Realman

1. From the Admin console, expand the Users menu, point to User Realms, and then click New User Realm.



User Authentication Realms > CMSA-Realm	
General Authentication Policy	Role Mapping
Name:	CMSA-Realm
Description:	
	🗍 When editing, start on the Role Mapping page
Servers	
Specify the servers to use for authentica	tion and authorization. To create or manage servers, see the <u>Servers</u> page
Authentication:	Cert_Appliance -
Directory/Attribute:	None -
Accounting:	None -
Additional authentication se	erver
Dynamic policy evaluation	
Other Settings	
Authentication Policy:	Certificate restrictions Password restrictions
Role Mapping:	1 Rule
Save changes?	
Save Changes	

- 2. On the **General** tab:
 - **Name**—Enter a name to label this realm.
 - **Description**—Enter a meaningful description.
 - In the **Servers** section:
 - Select an option from the Authentication drop-down list to specify an authentication server to use for authenticating users who sign in to this realm (for example, the Cert_Appliance server).
 - Accept the default for **Directory/Attribute**, None.
 - Accounting—Accept the default, None.
- 3. At the bottom of the page, click **Save Changes**.



4. To configure one or more role mapping rules (based on the role defined previously), select the **Role Mapping** tab.

User Authentication Realms > CMSA-Realm			
General Authentication Policy Role Mapping			
Specify how to assign roles to users when they sign in. Users that are	not assigned a role wil	I not be able to sign in.	
New Rule Duplicate Delete 🔹 🖡			Save Changes
When users meet these conditions		assign these roles	Rule Name Stop
1. username is ***	\rightarrow	Users	IIA
When more than one role is assigned to a user:			
Merge settings for all assigned roles			
 User must select from among assigned roles 			
Output the sets of merged roles assigned by each rule			

5. Use the certificate as a restriction. Select the **Authentication Policy** tab, and then click **Certificate**.

Authentication Realms > SA-Realm		
eneral Authentication Policy Role Mapping		
urce IP Browser Certificate Password Host Checker I		
Allow all users (no client-side certificate required) Allow all users and remember certificate information whi Only allow users with a client-side certificate signed by You can optionally require specific values in the client of	Trusted Client CAs to sign in. To change the certification author	ity, see the <u>Trusted Client CA</u> page.
Certificate field (example "cn")	Expected value	
		Add
Observed and a second sec		
ave Changes	and a set of the set o	

- 6. Select the option to only allow users with a client-side certificate signed by a Trusted Client CA to sign in.
- 7. Click Save Changes.



2.4 Procedure 4: Configure New Juniper Sign-In Page

- Authentication		
Signing In	Þ	Sign-in Policies
Endpoint Security	Þ	Shin-in Pages
		13

1. From the Admin console, expand the **Authentication** menu, point to **Signing In**, and then click **Sign-in Pages**.

efault Sign-In Page				
Name:	Default Sign-In Page	Label to	reference the sign-in page.	
Page Type:	Our Users/Administrat	tors		
ustom text				
Welcome message:	Welcome to the			
Portal name:	Secure Access SSL VPN			
Submit button:	Sign In			
Instructions:	Please sign in to begin your secure session. <noscript>Note: Javascript is disabled on your browser. </noscript>			
	This text appears on the	right-hand	side of the sign-in page. You can use , <b< td=""></b<>	
Username:	Username			
Password:	One Time Password			
Realm:	Realm	This pron	npt appears when the sign in page supports m	
Secondary username:	LDAP User			
Secondary password:	LDAP Password			
	dary credentials on the These labels appear when		page sing this sign-in page specifies a secondary ac	
	Your session has ende	d.	Text appears in message box when user sig	
Sign Out message:	rour session nus ende			

- 2. Accept the default Name and Page Type. Accept the defaults in the Custom text section of the page.
 - Welcome message—The page salutation.



- **Portal name**—Optionally, change this. This will be what comes after *Welcome to the*.
- Submit button—The button name.
- **Instructions**—Optionally, change the text you want the user to see on the sign-in page.
- **Username**—This is used by the realm to mask the secondary username on the sign-in page.

2.5 Procedure 5: Juniper Sign-In Policies

User sign-in policies also determine the realm(s) that users can access.

Authentication	Authentication	
Signing In	Þ	Sign-in Policies 💥
Endpoint Security	•	Sign-in Pages
Auth. Servers		Sign-in Notifications

1. To create or configure user sign-in policies, in the Admin console, expand the **Authentication** menu, point to **Signing In**, and then click **Sign-in Policies**.



Sign-in Policies Sign-in Page	s Sign-in Notifications	
Restrict access to administ	trators only	
Only administrator URLs will be a disabled.	accessible. Note that Administrators can a	ttempt to sign in even if a
Enable multiple user session	ns	
	the maximum number of sessions per us age. By default, this is 1, or one session p n for all realms of this user.	
Display open user session[s	s] warning notification	
Check this option to notify users	s if they have other active session[s] in p	
follow the instructions on the wa	rning notification page to proceed or cano	el the login.
Coloct when to display a poti	ification page to users	
Select when to display a not		
Always		
Always	per user for the realm has been reached	
() Always		
 Always If the maximum session limit ; 		
 Always If the maximum session limit ; 	per user for the realm has been reached	Authentication
Always If the maximum session limit ; New URL Delete Ena	per user for the realm has been reached	Authentication Admin Users
Always If the maximum session limit p New URL Delete Ena Administrator URLs	per user for the realm has been reached able Disable + + Sign-In Page	
Always If the maximum session limit (New URL Delete Ena Administrator URLs */admin/	per user for the realm has been reached able Disable + + Sign-In Page	<u>Admin Users</u>
Always If the maximum session limit (New URL Delete Ena Administrator URLs */admin/	per user for the realm has been reached able Disable • • Sign-In Page Default Sign-In Page	<u>Admin Users</u>
Always If the maximum session limit (New URL Delete Ena Administrator URLs '_/admin/ User URLs User URLs	per user for the realm has been reached able Disable • • Sign-In Page Default Sign-In Page Sign-In Page	Admin Users Authentication
Always If the maximum session limit p New URL Delete Ena Administrator URLs '/admin/ User URLs '/	per user for the realm has been reached able Disable Sign-In Page Default Sign-In Page Default Sign-In Page Default Sign-In Page	Admin Users Authentication Users
 Always If the maximum session limit point of the maximum sessice limit session limit session limit poin	per user for the realm has been reached able Disable Sign-In Page Default Sign-In Page Default Sign-In Page OOB	Admin Users Authentication Users Users
 Always If the maximum session limit (New URL Delete Ena Administrator URLs */admin/ User URLs */ */OOB/ */VWST/ 	per user for the realm has been reached able Disable Sign-In Page Default Sign-In Page Default Sign-In Page OOB VisibleWST	Authentication <u>Users</u> <u>Users</u> <u>Users</u>
 Always If the maximum session limit (New URL Delete Ena Administrator URLs */admin/ User URLs */ */OOB/ */VWST/ */HWST/ 	per user for the realm has been reached able Disable Sign-In Page Default Sign-In Page Default Sign-In Page OOB VisibleWST HiddenWST	Admin Users Authentication Users Users Users Users

- 2. To create a new sign-in policy, click **New URL**.
- In the Sign-in URL field displayed (not illustrated), enter the URL that you want to associate with the policy. Use the format <host>/<path>, where <host> is the host name of the Secure Access device and <path> is any string you want users to enter.
- 4. For Sign-in Page, select the sign-in page that you want to associate with the policy.
- 5. For **Authentication realm**, specify which realm(s) map to the policy and how users should pick from amongst realms.
- 6. Click Save Changes.



2.6 Procedure 6: Import the CMS Appliance Root CA

JUNIPEC			
Central Manager			
– System			
Status			
Configuration	Security		
Network	Certificates)	Device Certificates	
Clustering	DMI Agent	Trusted Client CAs	ications
IF-MAP Federation	NCP	Trusted Server CAs	
Log/Monitoring	Sensors	Code-signing Certificates	5
- Authentication	Client Types	Client Auth Certificates	
Signing In	Secure Meeting	Will be accessible. Note th	at Administrate
Endpoint Security	Virtual Desktops		
Auth. Servers	User Record Synchronization)	sessions	
- Administrators	IKEv2	d enter the maximum nur ect this check box, you lim	
Admin Realms		where this encore box, you him	

1. Navigate to Signing In -> Certificates -> Trusted Client CAs.

	Import from:	Browse
mport Trusted C		

2. In the **Certificate file** section, click the **Browse** button to locate the CMS Appliance Root CA certificate, and then click **Import Certificate**.

The certificate is located as illustrated next:





Security Certificates DMI Agent NC	P Sensors Client Types Secure Mee	ting Virtual Desktops User Record Sy	ynchronization IKEv2
Device Certificates Trusted Client CAs Trust	ed Server CAs Code-signing Certificates C	lient Auth Certificates	
ers can be required to present valid clier	nt-side certificates to sign in (see the rea	alm-specific Certificate Authentication Po	plicy page). Specify trusted certif
sers can be required to present valid clier	nt-side certificates to sign in (see the rea	alm-specific Certificate Authentication Po	blicy page). Specify trusted certif
sers can be required to present valid clier Auto-import options Import CA Certificate		alm-specific <u>Certificate Authentication Po</u>	blicy page). Specify trusted certif
sers can be required to present valid clier Auto-import options Import CA Certificate		Im-specific <u>Certificate Authentication Pc</u>	<u>plicy</u> page). Specify trusted certif
		Ilm-specific <u>Certificate Authentication Po</u> Valid dates	olicy page). Specify trusted certif Status checking



3.0 Authentication with a Smart Card and Client Certificate in the Sign-In Page.

1. The user launches the Juniper User Portal.

vorites 🛛 🚖 🔊 Activide	-	
	intity Secure Acce 🙋	Live Meeting - Se connecter 🏾 🏀 Suggested Sites 🔻 🙋 Get More Add-ons 👻
ertificate Error: Navigation B	Blocked	
There is a pro	oblem with this w	vebsite's security certificate.
		his website was not issued by a trusted certificate authority.
The security cert	ificate presented by th	his V Windows Security
Security certificat	te problems may indic	cate Confirm Certificate
		Confirm this certificate by clicking OK. If this is not the correct certificate,
server.		
	d that you close this	click Cancel.
We recommend	d that you close this	s we
We recommend	d that you close this close this webpage.	s we fred2's PIV Authentication Issuer: ActiviDCMS1
We recommend		s we fred2's PIV Authentication Issuer: ActivIDCMS1

2. The user is prompted to confirm the certificate, and then clicks OK.



3. The user enters a **PIN**, and then clicks **OK**.



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