FDM에서 Air-Gapped Networks에 영구 라이센스 적용

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소개

이 문서에서는 FDM(Firepower 장치 관리자)에서 Air-Gapped Networks에 영구 라이센스를 적용하 는 방법에 대해 설명합니다.

사전 요구 사항

요구 사항

이 주제에 대한 지식을 가지고 있는 것이 좋습니다.

• Cisco Secure Firewall Threat Defense 초기 구성

사용되는 구성 요소

이 문서의 정보는 소프트웨어 버전을 기반으로 합니다.

• Firepower Threat Defense 버전 7.4.1

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바 이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 현재 네트워크가 작동 중인 경우 모든 명령의 잠재적인 영향을 미리 숙지하시기 바랍니다.

구성

PLR 모드 활성화

1단계. 디바이스에서 PLR 모드를 활성화합니다.

Device(디바이스)를 클릭하고 Smart License로 이동합니다.



2단계. 기어를 클릭하고 Switch to Universal PLR(범용 PLR로 전환)을 선택합니다.



참고: 디바이스에서 Smart Licensing을 사용하는 경우 디바이스의 등록을 취소해야 합니다.



주의: PLR 모드로 전환하면 평가 모드로 다시 전환할 수 없습니다.

Firewall Device Manager	>	?	* admin * Administrator	 dialla SECURE
Device Summary Smart License				
LICENSE ISSUE Evaluation Period You are in Evaluation mode now.				Resync connection
82/90 days left REGISTER DEVICE Need help?(2				Switch to Universal PLR

미리 보기 창에서 성능 계층을 선택하고 예 를 클릭합니다.

A Change to Permanent License

If you switch to Universal Permanent License Reservation mode, you cannot switch back to Evaluation mode.

Are you sure you want to use Universal Permanent License Reservation for this device?

Select Performance Tier

The selected performance tier determines VPN session limits and device throughput, click here 🖸 to learn more.

Make sure the performance tier selected matches the license in your Cisco Smart Software Manager account.

Performance Tier		Your D	Your Device Specifications			
Pick a Tier	~	Cores	/ RAM 4 co	ore / 8 GB		
			NO	YES		

3단계. 요청 코드를 저장합니다.

Univ	versal Permanent License Reservation ${oldsymbol{arepsilon}}$ ${oldsymbol{arepsilon}}$ ${oldsymbol{arepsilon}}$
() If	you have Cloud Services enabled you might want to disable them.
1	Save Request Code for this Device.
\downarrow	Request Code
	DE-ZNGFWv:9ADKC86E1VU-CCRVmZyqM-BF SAVE AS TXT
(2) ↓	Log into your Cisco Smart Software Manager [2] account, go to the Inventory > Licenses page, and start the License Reservation process. Use the request code to generate an Authorization Code. Note that you must work with your Cisco representative to enable Universal Permanent License Reservation mode in your account. If you cannot start the License Reservation process (that is, the button does not appear on the Inventory > License page), please contact your Cisco representative.
3	Paste or type in the Authorization Code:
	Authorization Code
	Paste code from clipboard here
?	For a more detailed overview on Cisco Licensing, go to cisco.com/go/licensingguide
	CANCEL

4단계. CSSM 계정에 로그인하여 Smart Software Licensing > Inventory > Licenses로 이동하고 License Reservation을 클릭합니다.



Proceed(진행)를 클릭합니다.

Use of the Software contained in this Smart Account is subject to Cisco's EULA. Cisco may restrict the availability or features of this Smart Account or the Smart Licensing capabilities in any region, or modify or discontinue features to comply with applicable laws and regulations. You may only use the Software in the country for which it is purchased and intended to be used.

				Proceed
요청 코드를 붙여ද	넣은 후 다음을 클럽	릭합니다.		
Smart License Reserva	tion			×
STEP 1 Enter Request Code	STEP 2 Select Licenses	STEP 3 Review and Confirm	STEP 4 Authorization Code	
You can reserve licenses fo You will begin by generating To learn how to generate thi Once you have generated th 1) Enter the Reservation 2) Select the licenses to 3) Generate a Reservati 4) Enter the Reservation • Reservation Request Coo	or product instances that cannot conne a Reservation Request Code from th is code, see the configuration guide for the code: a Request Code below b be reserved ion Authorization Code a Authorization Code on the product in: de:	ect to the Internet for security reasons le product instance. or the product being licensed. stance to activate the features	š.	
DE-ZNGFWv:9ADKC86E1V0	U-CCRVmZyqM-BF	Br	owse	•
				Cancel

라이센스를 선택하고 다음을 클릭합니다.

Smart License Reservation

STEP 1 🗸	STEP 2	STEP 3	STEP 4
Enter Request Code	Select Licenses	Review and Confirm	Authorization Code
Product Instance Detai	ls		
Product Type:	VIRTSEC		
UDI PID:	NGFWv		
UDI Serial Number:	9ADKC86E1VU		
Licenses to Reserve			

In order to continue, ensure that you have a surplus of the licenses you want to reserve in the Virtual Account.

Cisco Firepower Virtual Threat Defense Universal License



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Generate Authorization Code를 클릭합니다.

Smart License Reservation

STEP 1 🗸	STEP $2 \checkmark$ Select Licenses	STEP 3 Review and Confirm	STEP 4 . Authorization Code		
Product Instance Deta	ils				
Product Type: UDI PID: UDI Serial Number: Licenses to Reserve	VIRTSEC NGFW/ 9ADKC86E1VU				
License			Expires	Quantity to Reserve	
Cisco Firepower Virtual Thr Cisco Firepower Virtual Threat Defer	eat Defense Universal License		-	1	

Capacity Constate Authorization Code	Cancel Back	Cancel
Back Generate Authorization Code	Dack	

인증 코드를 저장하려면 파일로 다운로드 또는 클립보드에 복사를 클릭합니다.

Smart License Reservation

step 1 🗸	STEP $2 \checkmark$	step 3 🗸	STEP 4	
Enter Request Code	Select Licenses	Review and Confirm	Authorization Code	
The Reservation Autho	rization Code below has been genera	ited for this product instance. Enter th	nis code into the Smart Licensing set	ings for the product, to enable the licensed features.
Product Instance Deta	ails			
Product Type:	VIRTSEC			
UDI PID:	NGFWv			
UDI Serial Number:	9ADKC86E1VU			
Authorization Code:	1999 - 19 - 19 - 10 - 14 - 14 - 14 - 14 - 14 - 14 - 14	V LV		
To learn how to enter this code	e see the confiduration duide for the	product being licensed		
			Do	wwnload as File Copy to Clipboard Close

Close(닫기)를 클릭하여 프로세스를 완료합니다.

5단계. FDM으로 돌아가 Authorization Code(인증 코드)를 붙여넣은 후 Register(등록)를 클릭합니 다.



참고: 페이지를 새로 고쳐 라이센스의 현재 상태를 확인합니다.

Universal Permanent License Reservation



1 If you have Cloud Services enabled you might want to disable them.

1	Save Request Code for this Device.		
\downarrow	Request Code		
	DE-ZNGFWv:9ADKC86E1VU-CCRVmZyqM-BF	SAVE AS TXT	
(2) ↓	Log into your Cisco Smart Software Manager 2 account, go and start the License Reservation process. Use the request of Code. Note that you must work with your Cisco representation License Reservation mode in your account. If you cannot stat process (that is, the button does not appear on the Inventory your Cisco representative.	to the Inventory code to generate ve to enable Univ rt the License Re / > License page	 > Licenses page, an Authorization versal Permanent vervation), please contact
3	Paste or type in the Authorization Code:		
	Authorization Code		
?	For a more detailed overview on Cisco Licensing, go to cisc	o.com/go/licensi	ngguide 🛽
		CANCEL	REGISTER

PLR 등록 취소

CSSM에 라이선스가 있습니다.

CSSM에서 라이센스 등록 마법사를 완료하고 인증 코드가 있는 경우 이 옵션을 사용합니다. 예를 들어 잘못된 FDM에서 프로세스를 시작했으므로 CSSM 계정에서 라이센스를 릴리스해야 합니다.

1단계. Device(디바이스)를 클릭하고 Smart License로 이동합니다.



2단계. 기어를 클릭하고 PLR 취소(Cancel PLR)를 선택합니다.

Firewall Device Manager Monitoring Policies Objects Device: firepower	(b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	ECURE
Device Summary Licensing		
O UNIVERSAL PLR NOT FINISHED Reservation Pending	Resvinc con	¢ ~
CONTINUE RESERVATION Need help?(3	Cancel PLR	1
Tiered Performance Performance Tier: FTDv20 - 3 Gbps V	() Includes:	
Session limits for VPN and rate-limited throughput are determined by the selected performance tier. Learn More [2]	Minimum Threat Defense Virtual Cores 4 core Rate Limit 3 Gbps Minimum Threat Defense Virtual RAM 8 GB VPN Limit 250	
	Your Device: Cores / RAM 4 core / 8 GB	

3단계. I have a license in CSSM을 선택합니다.

Are you sure you want to cancel the Permanent License Reservation?



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4단계. 인증 코드를 붙여넣은 다음 Generate Release Code(릴리스 코드 생성)를 클릭합니다.

Are you sure you want to cancel the Permanent License Reservation?





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Release License Code를 저장합니다.

Are you sure you want to cancel the Permanent License Reservation?

License States I have a License in CSSM I do not have a License in ... 1 Get Authorization Code from CSSM and paste it here: Authorization Code 2 Generate a Release License Code using your Authorization Code. Release License Code 🛱 PRINT DKvxiU-zchZA5-M6ekJk-EmeitQ-85pErd-Ft7 SAVE AS TXT You will not be able to regenerate the Release Code after you unregister. Please make sure that you save this code for use in Cisco Smart Software Manager. 3 In your Cisco Smart Software Manager 2 account free up license by putting Release Code. CANCEL OK

5단계. CSSM 계정에 로그인하여 Smart Software Licensing > Inventory > Product Instances로 이 동합니다.

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Smart Software Licensing

SL Product Details Support Help

Alerts | Inventory | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | Activity

General Licenses Product Instances	vent Log			
Authorize License-Enforced Features		Search by De	vice or by Product Type	٩,
Name	Product Type	Last Contact	Alerts	Actions
10.106.60.161	FP	2024-Feb-08 21:22:04		Actions 👻
68.com	ESA	2024-Feb-08 15:47:37		Actions -
724FMC	FP	2024-Jan-16 18:30:52		Actions -
A-TSZ-HIS-FMC01	FP	2023-Oct-03 21:05:28	8 Failed to Renew	Actions -
a4115	FPRUHI	2024-Jan-27 17:05:40		Actions -
AAALAB	ASAHIGH	2024-Jan-18 19:07:58		Actions -
AAALAB	ASAHIGH	2024-Jan-18 11:25:38		Actions -
AAALAB	ASAHIGH	2024-Jan-18 20:14:33		Actions -
AAALAB	ASAHIGH	2024-Jan-18 05:30:17		Actions -
AAALAB	ASAHIGH	2024-Jan-18 08:00:04		Actions -
10 🗸			Showing Page 1 of 97 (963 Records	s) < < > >

6단계. 이름으로 장치를 검색합니다.



참고: Name(이름)은 디바이스 일련 번호입니다.

Seneral	Licenses	Product Instances	Event Log			
Authorize	License-Enforc	ed Features		UDI_P	D:NGFWv; UDI_SN:9ADKC86E1VU;	×
Name			Product Type	Last Contact	Alerts	Actions
UDI_PID:NG	FWv; UDI_SN:9/	ADKC86E1VU;	VIRTSEC	2024-Feb-09 01:11:40 (Res	erved Licenses)	Actions 🗸

7단계. Actions(작업)를 클릭하고 드롭다운 목록에서 Remove(제거)를 선택합니다.

General	Licenses	Product Instances	Event Log			
Authorize	e License-Enforce	ed Features		UDI_PI	ID:NGFWv; UDI_SN:9ADKC86E1VU;	× 9,
Name			Product Type	Last Contact	Alerts	Actions
UDI_PID:N	GFWv; UDI_SN:9A	DKC86E1VU;	VIRTSEC	2024-Feb-09 01:11:40 (Rese	erved Licenses)	Actions 👻
					Tr	ransfer
					R	emove
					R	ehost Licenses from a Failed Prod

Release License Code(릴리스 라이센스 코드)를 붙여넣고 Remove Reservation(예약 제거)을 클릭 합니다.

×

Remove Reservation

To remove a Product Instance that has reserved licenses and make those licenses once again available to other Product Instances, enter in the Reservation Return Code generated by the Product Instance. If you cannot generate a Reservation Return Code, contact Cisco Support

 Reservation Return Code: 	DKvxiU-zchZA5-M6ekJk-EmeitQ-85pErd-Ft7	
	Remove Reservation	Cancel

8단계. 장치로 돌아가 Ok(확인)를 클릭합니다.



참고: 페이지를 새로 고쳐 라이센스의 현재 상태를 확인합니다.

Are you sure you want to cancel the Permanent License Reservation?

Licen	se States
l h	ave a License in CSSM I do not have a License in
	Get Authorization Code from CSSM and paste it here: Authorization Code
(2) ↓	Generate a Release License Code using your Authorization Code. Release License Code
	DKvxiU-zchZA5-M6ekJk-EmeitQ-85pErd-Ft7 SAVE AS TXT
	You will not be able to regenerate the Release Code after you unregister. Please make sure that you save this code for use in Cisco Smart Software Manager.
3	In your Cisco Smart Software Manager 🕑 account free up license by putting Release Code.
	CANCEL

CSSM에 라이선스가 없습니다.

CSSM에서 라이센스 등록 마법사를 완료하지 않은 경우 이 옵션을 사용합니다. 예를 들어 FDM에 서 PLR 프로세스를 시작했지만 CSSM에 올바른 라이센스가 없습니다.

1단계. Device(디바이스)를 클릭하고 Smart License로 이동합니다.

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2단계. 기어를 클릭하고 PLR 취소(Cancel PLR)를 선택합니다.

Firewall Device Manager Monitoring Policies Objects Device: firepower	S→ (m)	cisco SECURE
Device Summary Licensing		_
UNIVERSAL PLR NOT FINISHED Reservation Pending CONTINUE RESERVATION Need help?(3)		Resync connection
Tiered Performance Performance Tier: FTDv20 - 3 Gbps Session limits for VPN and rate-limited throughput are determined by the selected performance tier. Learn More (3)	Includes: Minimum Threat Defense Virtual Cores 4 core Rate Limit 3 Gbps Minimum Threat Defense Virtual RAM 8 GB VPN Limit 250	
	Your Device: Cores / RAM 4 core / 8 GB	

3단계. CSSM에서 I don't have license(라이센스가 없음)를 선택합니다.

Cancel Permanent License Reservation	@ ×	
Are you sure you want to cancel the Permanent License Reservation License States I have a License in CSSM	on?	
i In this case you can proceed with Cancelling Permanent License Rese	rvation.	
	CANCEL	ОК

Ok(확인)를 클릭하여 완료합니다.

PLR 모드에서 디바이스 등록 취소

1단계. Device(디바이스)를 클릭하고 Smart License로 이동합니다.

Firewall Device Manager Monitoring Policies Objects	Device: firepower		admin Administrator
Model Cisco Firepower Threat Defens	Software VDB Intrusion Rule Upda e for VMwa 7.4.1-172 376.0 20231011-1536	ate Cloud Services High Availat R Not Registered Register Not Configu	bility Configure
reside Net	Cisco Firepower Threat Defense for VMware		Internet NS Server TP: Server Universal P
Interfaces Management: Merged () Enabled 1 of 4 View All Interfaces	Routing 1 static route View Configuration	Updates Geolocation, Rule, VDB, System Upgrade, Security Intelligence Feeds View Configuration	System Settings Management Access Logging Settings DHCP Server / Relay DDNS Service
Smart License Universal PLR Tier: Not selected (Threat Defense Virtual - Variable) View Configuration	Backup and Restore View Configuration	Troubleshoot No files created yet REQUEST FILE TO BE CREATED	Hostname Time Services SSL Settings See more

2단계. 기어를 클릭하고 Unregister Universal PLR을 선택합니다.



\Lambda Warning

If you unregister the device, you cannot make any changes to the device configuration. You will have to re-register the device using either Smart Licensing or Universal Permanent License Reservation mode to make changes.

Are you sure you want to unregister the device?

	_	
ES	YES	NO

4단계. Release License Code를 저장합니다.

Unregister Universal Permanent License Reservation $\, {m arnotheta} \, imes \, imes \,$

U	Save Release Code for this Device.		
\downarrow	Release License Code		
	DCsSXH-D2rBtc-UZzer8-Un5yqp-vcKF1v-EG4	SAVE AS TXT	
	You will not be able to regenerate the Release Code afte save this code for use in Cisco Smart Software Manager.	r you unregister. Please r	make sure that you
2	In your Cisco Smart Software Manager I free up licens from here.	se by inserting Releas	e License Code
		CANCEL	UNREGISTER

5단계. CSSM 계정에 로그인하여 Smart Software Licensing > Inventory > Product Instances로 이 동합니다.

Smart Software Licensing

SL Product Details Support Help

Alerts | Inventory | Convert to Smart Licensing | Reports | Preferences | On-Prem Accounts | Activity

General Licenses Product Instances	vent Log			
Authorize License-Enforced Features		Search by De	vice or by Product Type	٩,
Name	Product Type	Last Contact	Alerts	Actions
10.106.60.161	FP	2024-Feb-08 21:22:04		Actions 👻
68.com	ESA	2024-Feb-08 15:47:37		Actions -
724FMC	FP	2024-Jan-16 18:30:52		Actions -
A-TSZ-HIS-FMC01	FP	2023-Oct-03 21:05:28	8 Failed to Renew	Actions -
a4115	FPRUHI	2024-Jan-27 17:05:40		Actions -
AAALAB	ASAHIGH	2024-Jan-18 19:07:58		Actions -
AAALAB	ASAHIGH	2024-Jan-18 11:25:38		Actions -
AAALAB	ASAHIGH	2024-Jan-18 20:14:33		Actions -
AAALAB	ASAHIGH	2024-Jan-18 05:30:17		Actions -
AAALAB	ASAHIGH	2024-Jan-18 08:00:04		Actions -
10 🗸			Showing Page 1 of 97 (963 Records	s) < < > >

6단계. 이름으로 장치를 검색합니다.



참고: Name(이름)은 디바이스 일련 번호입니다.

General	Licenses	Product Instances	Event Log			
Authorize	License-Enforce	ed Features		UDI	PID:NGFWv; UDI_SN:9ADKC86E1VU;	× Q
Name			Product Type	Last Contact	Alerts	Actions
UDI_PID:NO	SFWv; UDI_SN:9A	DKC86E1VU;	VIRTSEC	2024-Feb-09 01:11:40 (R	eserved Licenses)	Actions 👻
						Showing 1 Reco

7단계. Actions(작업)를 클릭하고 드롭다운 목록에서 Remove(제거)를 선택합니다.

General	Licenses	Product Instances	Event Log			
Authorize	e License-Enforce	ed Features		UDI_PII	D:NGFWv; UDI_SN:9ADKC86E1VU;	× 9,
Name			Product Type	Last Contact	Alerts	Actions
UDI_PID:N	GFWv; UDI_SN:9A	DKC86E1VU;	VIRTSEC	2024-Feb-09 01:11:40 (Rese	rved Licenses)	Actions 👻
					Tra	nsfer
					Rer	nove
					Ref	nost Licenses from a Failed Produc

Release License Code(릴리스 라이센스 코드)를 붙여넣고 Remove Reservation(예약 제거)을 클릭 합니다.

Remove Reservation

To remove a Product Instance that has reserved licenses and make those licenses once again available to other Product Instances, enter in the Reservation Return Code generated by the Product Instance. If you cannot generate a Reservation Return Code, contact Cisco Support

* Reservation Return Code:

DCsSXH-D2rBtc-UZzer8-Un5yqp-vcKF1v-EG4

Rem	ove Reservation	Cancel

8단계. 디바이스로 돌아가 Unregister(등록 취소)를 클릭합니다.

×

Unregister Universal Permanent License Reservation

X

1	Save Release Code for this Device.					
\downarrow	Release License Code					
	DCsSXH-D2rBtc-UZzer8-Un5yqp-vcKF1v-EG4	SAVE AS T	KT 🖶 PRINT			
	A You will not be able to regenerate the Release Code after you unregister. Please make so save this code for use in Cisco Smart Software Manager.					
2	In your Cisco Smart Software Manager 2 free up license by inserting Release License Code from here.					
		CANCEL	UNREGISTER			

다음을 확인합니다.

Device(디바이스) > Smart License(스마트 라이센스)로 이동하면 라이센스가 Universal PLR임을 확인할 수 있습니다.



문제 해결

1. /ngfw/var/log/cisco/smart_agent.log에서 오류를 확인합니다.

예를 들어, 이러한 로그에서 등록 프로세스가 성공했음을 확인할 수 있습니다.

<#root>
> expert
admin@firepower:~\$ sudo su
Password:

```
root@firepower:/home/admin# cd /ngfw/var/log/cisco/
root@firepower:/ngfw/var/log/cisco# tail smart_agent.log
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO LicenseSoftwareIds:82 - Selected software ID: regid.2019-
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO DefaultSmartAgentFactoryProvider:398 - New platform tag i
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO PLRUnhandledNotificationHandler:31 - Handling listener cl
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO PLRUnhandledNotificationHandler:31 - Handling listener cl
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO PLRUnhandledNotificationHandler:31 - Handling listener cl
2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO SmartAgentConfFileSync:178 - RegistrationStatus : REGISTER
```

2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO SmartAgentConfFileSync:192 - updated the smart Agent File 2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO PLRUnhandledNotificationHandler:31 - Handling listener cl 2024-02-09 03:21:21 ajp-nio-8009-exec-8: INFO DefaultSmartAgentManager:159 - Received notification from

2. TAC 지원을 요청할 수 있는 피그 테일을 가져와서 케이스 노트에 첨부합니다. <u>Cisco Technical</u> <u>Support & Downloads</u>에서 지원 지원을 요청할 수 <u>있습니다</u>.

> expert
admin@firepower:~\$ sudo su
<u>root@firepower:/home/admin#</u> pigtail all -outfile LogsRegistration.txt

3. 라이센스 상태는 /etc/sf/smart_agent.conf 파일에도 보고됩니다. 디바이스가 Universal Permanent Licensing Reservation 모드에 있는 경우 smart_agent.conf는 REGISTERED 및 AUTHORIZED로 표시됩니다.

> expert admin@firepower:~\$ sudo su root@firepower:/home/admin# tail /etc/sf/smart_agent.conf #Fri Feb 09 03:21:21 UTC 2024 virtual_acct= registration=REGISTERED,null authorization=AUTHORIZED,1707448881842

일반적인 문제

라이센스가 부족합니다.

라이센스 예약 프로세스에서 다음 오류가 발생했습니다.

Smart License Reservation



권장 조치.

CSSM 어카운트에 충분한 라이센스가 있는지 확인합니다. 라이센스가 충분한 경우 TAC 지원을 요 청합니다. License Reservation(라이센스 예약) 버튼이 표시되지 않습니다.

Smart Software L	SL Product Details Support Help			
Alerts Inventory Convert t	o Smart Licensing Reports Preferences	On-Prem Accounts Activity		
General Licenses	Product Instances Event Log			
Available Actions -	Manage License Tags	C	Show License Transactions	By Name By Tag Search by License Q

권장 조치

계정에서 PLR 모드를 사용하려면 Cisco 담당자에게 문의해야 합니다.

관련 정보

• <u>Cisco Secure Firewall Device Manager 컨피그레이션 가이드, 버전 7.4</u>

이 번역에 관하여

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