

ASA و ISE نيب TrustSec SXP نيوكت

تايوت حمل

[عمدق مل](#)

[عمساس الابلط مل](#)

[تابلط مل](#)

[عمدخت سمل تانوك مل](#)

[عمكبش ل ليطي طخت ل مسرل](#)

[IP نيوانع](#)

[عملوال عمئيه ل](#)

[ISE عمكبش زاهج](#)

[عمكبش زاهج ASA ليجست](#)

[هلينت و \(OOB\) قاطنل جراخ يمحم لوصو غوسم عاشنا](#)

[ASDM AAA مداخل نيوكت](#)

[AAA مداوخ عمومجم عاشنا](#)

[مداوخ ل عمومجم ل مداخل عفاضا](#)

[ISE نم هلينت مت يذل PAC داريت سا](#)

[عمئيل تاناي ب شيدحت](#)

[ققحت ل](#)

[قرشاب مل ISE تالچس](#)

[ISE نام اعومجم](#)

[ASDM PAC](#)

[ASDM ل عمئيل نام ال او تاناي ب اعومجم](#)

[ASDM SXP نيوكت](#)

[SXP نيكمت](#)

[عمضارت فال SXP رورم عمك و يضارت فال SXP ردم ل IP ناوع نييعت](#)

[SXP ريظن عفاضا](#)

[SXP ISE نيوكت](#)

[يمومع ل SXP رورم عمك دادع](#)

[SXP زاهج عفاضا](#)

[SXP نم ققحت ل](#)

[SXP ISE نم ققحت ل](#)

[SXP ISE تاناي عت](#)

[ASDM SXP نم ققحت ل](#)

[بيقرل نييعت ل IP SXP ملعت ب ASDM ماق](#)

[ISE ل عمذوخ مل عمزحل طاقت ل](#)

عمدق مل

ISE نيب (نام ال عمومجم لدابت لوكوتورب) SXP لاصتا نيوكت عمفيم دنن سمل اذه حضوي (Identity Services Engine) و ASA (زاهج) و.

تاناي عت رشن ل TrustSec همدخت سي يذل (نام ال عمومجم عمالع) SGT لدابت لوكوتورب وه SXP

ةيولوالا ةئيها ل

ةكباش زاا ISE

ةكباش زاا ASA لياا س

ةفاضا > ةكباش الا ةزاا > اناوكم الا > TrutSec > لمع الا زكارم

Network Devices List > New Network Device

Network Devices

* Name

Description

IP Address /

RADIUS Authentication Settings

RADIUS UDP Settings

Protocol **RADIUS**

* Shared Secret

CoA Port

Advanced TrustSec Settings

▼ **Device Authentication Settings**

Use Device ID for TrustSec

Identification

Device Id

* Password

▼ **TrustSec Notifications and Updates**

* Download environment data every

* Download peer authorization policy every

* Reauthentication every ⓘ

* Download SGACL lists every

Other TrustSec devices to trust this device

Send configuration changes to device Using CoA CLI (SSH)

Ssh Key

هوليژنتو (OOB) قاطنلا چراخ يمحملوصو غوسم عاشن

▼ **Out Of Band (OOB) TrustSec PAC**

Issue Date

Expiration Date

Issued By

Generate PAC

The Identity field specifies the username or machine name presented as the "inner username" by the EAP-FAST protocol. If the Identity string entered here does not match that username, authentication will fail.

* Identity

* Encryption Key

* PAC Time to Live

Expiration Date 29 Jan 2018 22:47:42 GMT

Opening ASAv.pac

You have chosen to open:

 **ASAv.pac**
 which is: **Binary File**
 from: **https://14.36.143.223**

Would you like to save this file?

ASDM AAA مداخل نيوكت

AAA مداخل ةومجم عاشن

...راد > مداخل ةومجم دادع > Identity by TrustSec > ةيامحل راج > نيوكتل

Server Group Setup

Server Group Name:

ةفاضل > AAA مداخل تاعومجم

Server Group	Protocol	Accounting Mode	Reactivation Mode	Dead Time	Max Failed Attempts	Realm Id
LOCAL	LOCAL					

- <عومجم لاس> AAA م داوخ ةومجم
- يكي مان ي دل ضي وف الت ل ن ي ك مت

AAA Server Group:

Protocol:

Realm-id:

Accounting Mode: Simultaneous Single

Reactivation Mode: Depletion Timed

Dead Time: minutes

Max Failed Attempts:

Enable interim accounting update

Update Interval: Hours

Enable Active Directory Agent mode

ISE Policy Enforcement

Enable dynamic authorization

Dynamic Authorization Port:

Use authorization only mode (no common password configuration required)

VPN3K Compatibility Option ⤴

Specify whether a downloadable ACL received from RADIUS should be merged with a Cisco AV-Pair ACL.

Do not merge

Place the downloadable ACL after Cisco AV-Pair ACL

Place the downloadable ACL before Cisco AV-Pair ACL

مداخلة وعومجم الى مداخلة فاضا

ة فاضا > ة ددحمل ة وعومجم لى ف مداخلة

Servers in the Selected Group		
Server Name or IP Address	Interface	Timeout

Add

Edit

Delete

Move Up

Move Down

Test

- IP: <ISE IP address> ناوع وأ مداخلة مسا
- مداخلة ة قداصم ذفنم: 1812
- مداخلة ة بساحم ذفنم: 1813
- مداخلة رس حاتفم: Cisco0123
- ةماعل رورملا ةم لك: Cisco0123

Server Group:	14.36.143.223
Interface Name:	outside
Server Name or IP Address:	14.36.143.223
Timeout:	10 seconds
RADIUS Parameters	
Server Authentication Port:	1812
Server Accounting Port:	1813
Retry Interval:	10 seconds
Server Secret Key:	••••••••
Common Password:	••••••••
ACL Netmask Convert:	Standard
Microsoft CHAPv2 Capable:	<input checked="" type="checkbox"/>
SDI Messages	
Message Table	

ISE نم هليزنت مت يذلا PAC داريتس

PAC... داريتس | > مداوخلال ةومجم دادع | > Identity by TrustSec > ةيامحل راج > نيوكتل

Server Group Setup

Server Group Name: Manage...

Refresh Environment Data Import PAC...

• رورمل ةم لك : Cisco0123

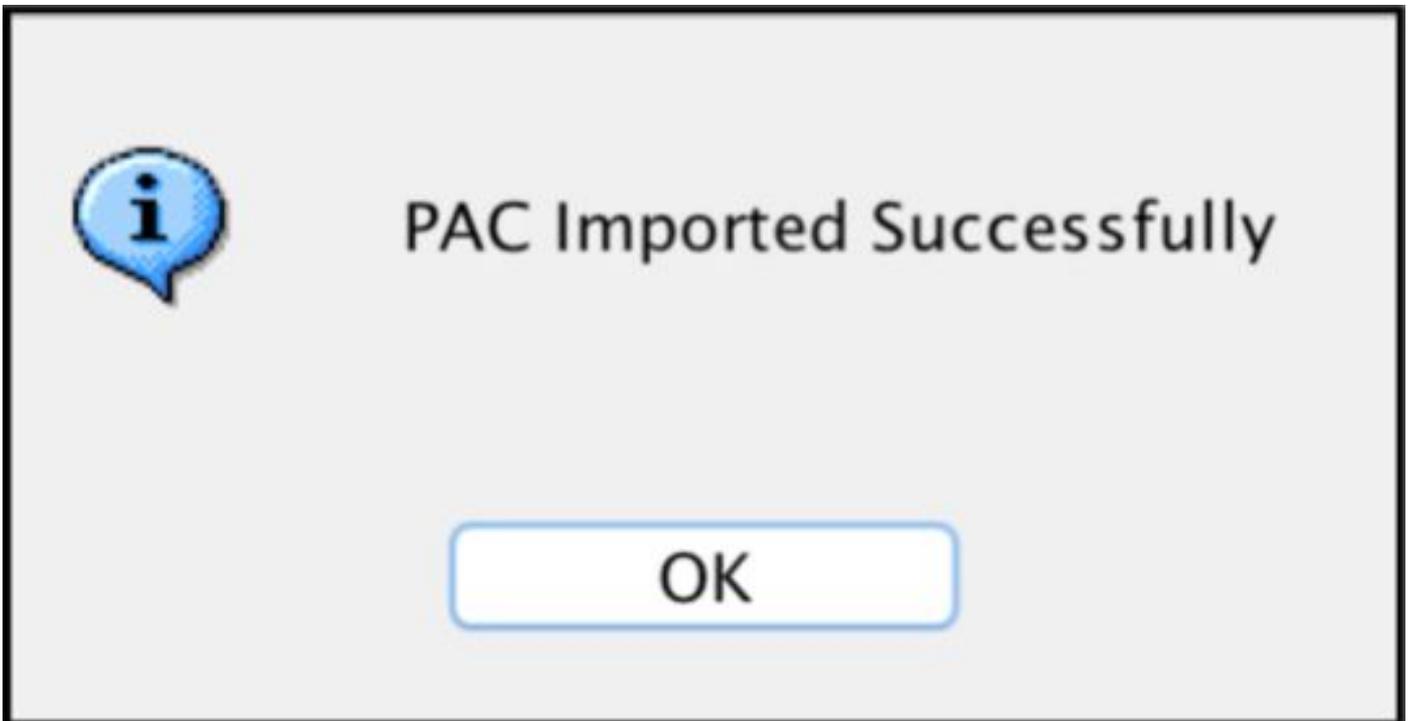
Import PAC

Filename: Browse...

Password:

Confirm Password:

Help Cancel Import



ةئيب ل تاناي ب ثي دحت

ةئيب ل تاناي ب ثي دحت > مداوخلال ةومجم دادع | > Identity by TrustSec > ةيامحل راج > نيوكتل

Server Group Setup

Server Group Name: 14.36.143.223  [Manage...](#)

[Refresh Environment Data](#) [Import PAC...](#)

ققحتلا

ةرشابملا ISE تالجس

ةرشابملا تالجسلا > RADIUS > تاي لمعلا

<input checked="" type="checkbox"/>		ASAv	#CTSREQUEST#	
<input checked="" type="checkbox"/>		ASAv	#CTSREQUEST#	NetworkDeviceAuthorization >> NDAC

Authentication Details

Source Timestamp	2017-07-30 00:05:53.432
Received Timestamp	2017-07-30 00:05:53.433
Policy Server	ISE23
Event	5233 TrustSec Data Download Succeeded
Username	#CTSREQUEST#
Network Device	ASAv
Device Type	All Device Types
Location	All Locations
NAS IPv4 Address	14.36.143.30
NAS Port Type	Virtual
Security Group	TrustSec_Devices
Response Time	33 milliseconds

CiscoAVPair

```
cts-environment-data=ASAv,  
cts-environment-version=1,  
cts-device-capability=env-data-fragment,  
cts-pac-opaque=****,  
coa-push=true
```

Result

State	ReauthSession:0e248dff2i7TiOfK10NeCx1yRhjPAO8_ssZ9U9VVy/o3dFT_tk
Class	CACS:0e248dff2i7TiOfK10NeCx1yRhjPAO8_ssZ9U9VVy/o3dFT_tk:ISE23/290687604/9
cisco-av-pair	cts:server-list=CTSServerList1-0001
cisco-av-pair	cts:security-group-tag=0002-02
cisco-av-pair	cts:environment-data-expiry=86400
cisco-av-pair	cts:security-group-table=0001-18

CiscoAVPair

cts-security-group-table=0001,
cts-pac-opaque=****,
coa-push=true

Result

State	ReauthSession:0e248fdcf4PVaU72zvhHwsT3F4qpdgq4rMsifPkqEcQiG4O_YZw
Class	CACS:0e248fdcf4PVaU72zvhHwsT3F4qpdgq4rMsifPkqEcQiG4O_YZw:ISE23/290687604/10
cisco-av-pair	cts:security-group-table=0001-18
cisco-av-pair	cts:security-group-info=0-0-00-Unknown
cisco-av-pair	cts:security-group-info=ffff-1-00-ANY
cisco-av-pair	cts:security-group-info=9-0-00-Auditors
cisco-av-pair	cts:security-group-info=f-0-00-BYOD
cisco-av-pair	cts:security-group-info=5-0-00-Contractors
cisco-av-pair	cts:security-group-info=8-0-00-Developers
cisco-av-pair	cts:security-group-info=c-0-00-Development_Servers
cisco-av-pair	cts:security-group-info=4-0-00-Employees
cisco-av-pair	cts:security-group-info=6-2-00-Guests
cisco-av-pair	cts:security-group-info=3-0-00-Network_Services
cisco-av-pair	cts:security-group-info=e-0-00-PCI_Servers
cisco-av-pair	cts:security-group-info=a-0-00-Point_of_Sale_Systems
cisco-av-pair	cts:security-group-info=b-0-00-Production_Servers
cisco-av-pair	cts:security-group-info=7-0-00-Production_Users
cisco-av-pair	cts:security-group-info=ff-0-00-Quarantined_Systems
cisco-av-pair	cts:security-group-info=d-0-00-Test_Servers
cisco-av-pair	cts:security-group-info=2-2-00-TrustSec_Devices
cisco-av-pair	cts:security-group-info=10-0-00-Tester

ISE نام أ تاع ومجم

نام أ تاع ومجم > تانوكم ل > TrustSec > لمع ل زكارم

Security Groups

For Policy Export go to [Administration](#) > [System](#) > [Backup & Restore](#) > [Policy Export Page](#)

 Edit  Add  Import  Export  Trash  Push

<input type="checkbox"/>	Icon	Name ↓	SGT (Dec / Hex)	Description
<input type="checkbox"/>		Auditors	9/0009	Auditor Security Group
<input type="checkbox"/>		BYOD	15/000F	BYOD Security Group
<input type="checkbox"/>		Contractors	5/0005	Contractor Security Group
<input type="checkbox"/>		Developers	8/0008	Developer Security Group
<input type="checkbox"/>		Development_Servers	12/000C	Development Servers Security Group
<input type="checkbox"/>		Employees	4/0004	Employee Security Group
<input type="checkbox"/>		Guests	6/0006	Guest Security Group
<input type="checkbox"/>		Network_Services	3/0003	Network Services Security Group
<input type="checkbox"/>		PCI_Servers	14/000E	PCI Servers Security Group
<input type="checkbox"/>		Point_of_Sale_Systems	10/000A	Point of Sale Security Group
<input type="checkbox"/>		Production_Servers	11/000B	Production Servers Security Group
<input type="checkbox"/>		Production_Users	7/0007	Production User Security Group
<input type="checkbox"/>		Quarantined_Systems	255/00FF	Quarantine Security Group
<input type="checkbox"/>		Tester	16/0010	
<input type="checkbox"/>		Test_Servers	13/000D	Test Servers Security Group
<input type="checkbox"/>		TrustSec_Devices	2/0002	TrustSec Devices Security Group

ASDM PAC

TrustSec > PAC ةطساوب فيرعت > صئاصخ > ةبقارم

PAC Information:

Valid until: **Jan 30 2018 05:46:44**
AID: 6f5719523570b8d229f23073404e2d37
I-ID: ASAv
A-ID-Info: ISE 2.2p1
PAC-type: Cisco Trustsec

PAC Opaque:

```
000200b000030001000400106f5719523570b8d229f23073404e2d3700060094000301  
00359249c4dd61484890f29bbe81859edb00000013597a55c100093a803f883e4ddafa  
d162ae02fac03da08f9424cb323fa8aaeae44c6d6d7db3659516132f71b25aa5be3f38  
9b76fdbbc1216d1d14e689ebb36d7344a5166247e950bbf62a370ea8fc941fa1d6c4ce5  
9f438e787052db75a4e45ff2f0ab8488dfdd887a02119cc0c4174fc234f33d9ee9f9d4  
dad759e9c8
```

ASDM ل ؤئئبب نامأل او تانابب تا ؤومجم

ؤئئبب تانابب > TrustSec ؤطساوب فئرت > صئاصخ > ؤبقارم

Environment Data:

Status: Active
Last download attempt: Successful
Environment Data Lifetime: 86400 secs
Last update time: 21:07:01 UTC Jul 29 2017
Env-data expires in: 0:21:39:07 (dd:hr:mm:sec)
Env-data refreshes in: 0:21:29:07 (dd:hr:mm:sec)

Security Group Table:

Valid until: 21:07:01 UTC Jul 30 2017
Total entries: 18

Name	Tag	Type
ANY	65535	unicast
Auditors	9	unicast
BYOD	15	unicast
Contractors	5	unicast
Developers	8	unicast
Development_Servers	12	unicast
Employees	4	unicast
Guests	6	unicast
Network_Services	3	unicast
PCI_Servers	14	unicast
Point_of_Sale_Systems	10	unicast
Production_Servers	11	unicast
Production_Users	7	unicast
Quarantined_Systems	255	unicast
Test_Servers	13	unicast
Tester	16	unicast
TrustSec_Devices	2	unicast
Unknown	0	unicast

ASDM SXP نېوكت

SXP نېكمت

Identity by TrustSec > ةيماحل راج > نيوكتل (SXP) بيقرلا لدابت لوكوتورب نيكمتم

Enable SGT Exchange Protocol (SXP)

ةيضارتفالا SXP رورم ةملكويضارتفالا SXP ردصم ل IP ناوع نييعت

لاصتالارئاطن > TrustSec ةطساوب ةيوهال > ةيماحل راج > نيوكتل

Default Source: 14.36.143.30

Default Password: ●●●●●●●●

Confirm Password: ●●●●●●●●

SXP ريظن ةفاضل

ةفاضل > لاصتالارئاطن > TrustSec ةطساوب ةيوهال > ةيماحل راج > نيوكتل

Connection Peers

Filter: Peer IP Address [v] [] Filter Clear

Peer IP Address	Source IP Address	Password	Mode	Role
-----------------	-------------------	----------	------	------

Add Edit Delete

• <ISE IP ناوع>: ريظنلل IP ناوع

Peer IP Address: 14.36.143.223

Password: Default [v]

Mode: Local [v]

Role: Listener [v]

ISE SXP نيوكت

ي مومع ل SXP رورم ةم لك دادع

SXP تادادع | > تادادع | > TrustSec > لمع ل زكارم

- ةيم ل اع ل رورم ل ةم لك : Cisco0123

SXP Settings

- Publish SXP bindings on PxGrid
- Add radius mappings into SXP IP SGT mapping table

Global Password

Global Password

This global password will be overridden by the device specific password

SXP زاهج ةفاض

ةفاض | > SXP ةزهج | > SXP > TrustSec > لمع ل زكارم

▼ Add Single Device

Input fields marked with an asterisk (*) are required.

name	<input type="text" value="ASAv"/>
IP Address *	<input type="text" value="14.36.143.30"/>
Peer Role *	<input type="text" value="LISTENER"/>
Connected PSNs *	<input type="text" value="× ISE23"/>
SXP Domain *	<input type="text" value="default"/>
Status *	<input type="text" value="Enabled"/>
Password Type *	<input type="text" value="DEFAULT"/>
Password	<input type="password"/>
Version *	<input type="text" value="V4"/>

► Advanced Settings

Cancel

Save

SXP نم ققحتلا

ISE SXP نم ققحتلا

SXP ةزهجأ > SXP > TrustSec > لمعلا زكارم

SXP Devices										
0 Selected										
Rows/Page 1 / 1 Total Rows										
Refresh Add Trash Edit Assign SXP Domain Filter										
Name	IP Address	Status	Peer Role	Pass...	Negoti...	SX...	Connected To	Duration [d...	SXP Domain	
<input type="checkbox"/>	ASAv	14.36.143.30	ON	LISTENER	DEFAULT	V3	V4	ISE23	00:00:00:02	default

ISE SXP تاني يفت

SXP تاني يفت عيمج > SXP > TrustSec > لمعلا زكارم

IP Address	SGT	Learned From	Learned By	SXP Domain	PSNs Involved
10.122.158.253/32	Guests (6/0006)	14.36.143.223	Local	default	ISE23
10.122.160.93/32	Guests (6/0006)	14.36.143.223	Local	default	ISE23
10.122.165.49/32	Employees (4/0004)	14.36.143.223	Local	default	ISE23
10.122.165.58/32	Guests (6/0006)	14.36.143.223	Local	default	ISE23
14.0.69.220/32	Guests (6/0006)	14.36.143.223	Local	default	ISE23
14.36.143.99/32	Employees (4/0004)	14.36.143.223	Local	default	ISE23
14.36.143.105/32	TrustSec_Devices (2/0002)	14.36.143.223	Local	default	ISE23
14.36.147.70/32	Employees (4/0004)	14.36.143.223	Local	default	ISE23
172.18.250.123/32	Employees (4/0004)	14.36.143.223	Local	default	ISE23
192.168.1.0/24	Contractors (5/0005)	14.36.143.223	Local	default	ISE23

ASDM SXP نم ققحتلا

SXP تالاصت | TrustSec ةطساوب فيرعت > صئاصخ > ةبقارم

SGT Exchange Protocol (SXP) Connections:

SXP: Enabled
 Highest version: 3
 Default password: Set
 Default local IP: 14.36.143.30
 Reconcile period: 120 secs
 Retry open period: 120 secs
 Retry open timer: Not Running
 Total number of SXP connections: 1
 Total number of SXP connections shown: 1

Peer Connection Status:

Filter: Peer IP Address Filter Clear

Peer	Source	Status	Version	Role	Instance #	Password	Reconcile Timer	Delete Hold-down Timer	Last Changed
14.36.143.223	14.36.143.30	On	3	Listener	1	Default	Not Running	Not Running	0:00:22:56 (dd:hr:mm:se)

ببقرلا نييعتل SXP IP ملعتب ASDM ماق

IP تانييغت > TrustSec ةطساوب فيرعت > صئاصخ > ةبقارم

Security Group IP Mapping Table:

Total number of Security Group IP Mappings: 10

Total number of Security Group IP Mappings shown: 10

Filter:

TAG



Tag	Name	IP Address
4	Employees	14.36.143.99
6	Guests	10.122.158.253
6	Guests	10.122.160.93
4	Employees	14.36.147.70
2	TrustSec_Devices	14.36.143.105
4	Employees	172.18.250.123
4	Employees	10.122.165.49
6	Guests	14.0.69.220
6	Guests	10.122.165.58
5	Contractors	192.168.1.0/24

ISE على ذوخملا ةمزلحلا طاقنلا

2060	0.000000	14.36.143.223	14.36.143.30	TCP	86	25982	-	64999	[SYN]	Seq=0	Win=29200	Len=0	MD5	MSS=1460	SACK_PERM=1	WS=1
2061	0.000782	14.36.143.30	14.36.143.223	TCP	78	64999	-	25982	[SYN, ACK]	Seq=0	Ack=1	Win=32768	Len=0	MSS=1460	MD5	
2062	0.000039	14.36.143.223	14.36.143.30	TCP	74	25982	-	64999	[ACK]	Seq=1	Ack=1	Win=29200	Len=0	MD5		
2074	0.039078	14.36.143.223	14.36.143.30	SMPP	102				SMPP Bind_receiver							
2075	0.000522	14.36.143.30	14.36.143.223	TCP	74	64999	-	25982	[ACK]	Seq=1	Ack=29	Win=32768	Len=0	MD5		
2076	0.000212	14.36.143.30	14.36.143.223	SMPP	90				SMPP Bind_transmitter							
2077	0.000024	14.36.143.223	14.36.143.30	TCP	74	25982	-	64999	[ACK]	Seq=29	Ack=17	Win=29200	Len=0	MD5		
2085	0.008444	14.36.143.223	14.36.143.30	SMPP	311				SMPP Query_sm							
2086	0.000529	14.36.143.30	14.36.143.223	TCP	74	64999	-	25982	[ACK]	Seq=17	Ack=266	Win=32768	Len=0	MD5		

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن مة و مچم مادختساب دن تسمل اذ ه Cisco ت مچرت
ملاعلاء نأ عي مچي ف ني مدختسمل معد ي وتحم مي دقتل ل ي رش بل او
امك ة قيق د نوك ت نل ةلأل ة مچرت ل ضفأ نأ ة ظحال م ي جزي . ة صاغل م ه تل ب
Cisco ي لخت . فرتحم مچرت م اهم دقي ي تل ل ة ي فارتحال ة مچرتل ل عم ل ا حل او ه
ى ل إ أمئاد و وچرلاب ي صؤت و ت امچرتل ل هذه ة ق د ن ع اه تي ل وئس م Cisco
Systems (رفو تم طبارل) ي ل صأل ا ي زيل چن إل ا دن تسمل ل