

Configurer les périphériques d'amorçage et non d'amorçage NDAC TrustSec

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Introduction

Ce document décrit comment configurer les périphériques de démarrage et non de démarrage lors de l'utilisation de trustsec avec ISE (Identity Services Engine).

Trustsec utilise NDAC (Network Device Admission Control) pour authentifier un nouveau périphérique avant de l'autoriser à rejoindre le domaine trustsec. Cela empêche les périphériques non autorisés de participer à l'échange d'informations de confiance. Les périphériques/authentificateurs de démarrage, dans ce cas le commutateur 6500, doivent être configurés manuellement et utiliser RADIUS sur IP pour se connecter à ISE. Les périphériques/supplicants non amorçables, dans ce cas le 3560X, n'ont pas de connectivité IP directe à ISE et exigent que les périphériques de démarrage s'inscrivent et les authentifient sur le réseau à l'aide de la norme 802.1X. Une fois le périphérique demandeur non amorcé authentifié, un PAC (Protected Access Credential) sera provisionné à partir de ISE et les informations du serveur seront téléchargées. Le PAC contient une clé partagée et un jeton chiffré pour fournir un

contact sécurisé à ISE dans le futur.

Conditions préalables

Serveur d'authentification ISE

Périphérique/authentificateur de démarrage compatible Trustsec

Dispositif/demandeur non amortisseur compatible Trustsec

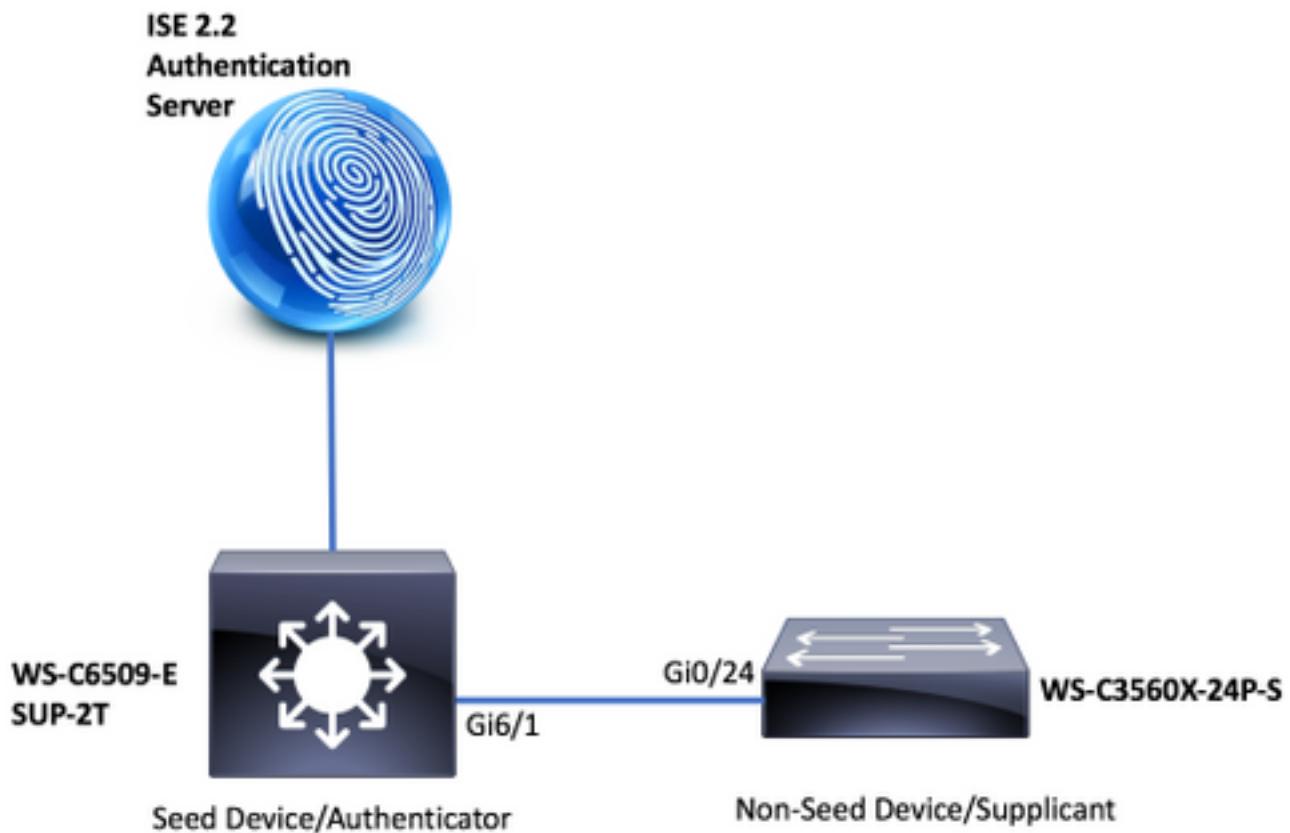
Veuillez vous reporter à la dernière matrice de compatibilité trustsec :

<http://www.cisco.com/c/en/us/solutions/enterprise-networks/trustsec/solution-overview-listing.html>

Components Used

- Correctif 2 ISE 2.2
- WS-C6509-E [VS-SUP2T-10G] s2t54-ipservicesk9-mz.SPA.152-1.SY3.bin
- WS-C3560X-24P-S c3560e-universalk9-mz.152-4.E4.bin

Diagramme du réseau



Adresses IP

ISE: 14.36.143.18

6509: 10.122.165.35

3560X : 10.122.160.118

Configuration ISE

Ajouter des périphériques réseau

6500 (semences)

WorkCenters > TrustSec > Composants > Périphériques réseau > Ajouter

Nom et adresse IP du périphérique

[Network Devices List](#) > [New Network Device](#)

Network Devices

| | |
|--|-----------------------------------|
| * Name | <input type="text" value="6500"/> |
| Description | <input type="text"/> |
| * IP Address: <input type="text" value="10.122.165.35"/> / <input type="text" value="32"/> | |

Secret partagé Radius

[▼ RADIUS Authentication Settings](#)

| | |
|---------------------|--|
| RADIUS UDP Settings | |
| Protocol | RADIUS |
| * Shared Secret | <input type="text" value="Cisc0123"/> Hide |
| CoA Port | <input type="text" value="1700"/> Set To Default |

Informations d'identification Trustsec

Advanced TrustSec Settings

Device Authentication Settings

Use Device ID for TrustSec

Identification

Device Id

* Password

TrustSec Notifications and Updates

* Download environment data every Days

* Download peer authorization policy every Days

* Reauthentication every Days ⓘ

* Download SGACL lists every Days

Other TrustSec devices to trust this device

Send configuration changes to device Using CoA CLI (SSH)

Ssh Key

Device Configuration Deployment

Include this device when deploying Security Group Tag Mapping Updates

Device Interface Credentials

* EXEC Mode Username

* EXEC Mode Password

Enable Mode Password

3560X (non semence)

WorkCenters > TrustSec > Composants > Périphériques réseau > Ajouter

Nom et adresse IP du périphérique

Network Devices List > New Network Device

Network Devices

* Name

Description

* IP Address:

/

Secret partagé Radius

▾ RADIUS Authentication Settings

RADIUS UDP Settings

| Protocol | RADIUS |
|-----------------|---|
| * Shared Secret | <input type="text" value="Cisc0123"/> <input type="button" value="Hide"/> |
| CoA Port | <input type="text" value="1700"/> <input type="button" value="Set To Default"/> |

Informations d'identification Trustsec

Advanced TrustSec Settings

Device Authentication Settings

Use Device ID for TrustSec

Identification

Device Id

* Password

TrustSec Notifications and Updates

* Download environment data every Days

* Download peer authorization policy every Days

* Reauthentication every Days ⓘ

* Download SGACL lists every Days

Other TrustSec devices to trust this device

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Ssh Key

Device Configuration Deployment

Include this device when deploying Security Group Tag Mapping Updates

Device Interface Credentials

* EXEC Mode Username

* EXEC Mode Password

Enable Mode Password

Groupes de sécurité TrustSec

WorkCenters > TrustSec > Composants > Groupes de sécurité

Security Groups

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

| | 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"/> | | Test_Servers | 13/000D | Test Servers Security Group |
| <input type="checkbox"/> | | TrustSec_Devices | 2/0002 | TrustSec Devices Security Group |
| <input type="checkbox"/> | | Unknown | 0/0000 | Unknown Security Group |

Stratégie d'autorisation des périphériques réseau

WorkCenters > TrustSec > Stratégie TrustSec > Autorisation des périphériques réseau

Network Device Authorization

Define the Network Device Authorization Policy by assigning SGTs to network devices. Drag and drop rules to change the order.

| Rule Name | Conditions | Security Group |
|--|--|-----------------------|
| <input checked="" type="checkbox"/> NDAC | If DEVICE:Device Type equals to Device Type#All Device Types | then TrustSec_Devices |
| <input checked="" type="checkbox"/> Default Rule | If no rules defined or no match | then Unknown |

Configuration du périphérique de démarrage (6500)

TrustSec Credentials

```
6500#cts credentials id 6500 password Cisc0123
```

AAA configuration

```
6500(config)#aaa new-model
6500(config)#aaa authentication dot1x default group radius
6500(config)#aaa accounting identity default start-stop group radius
6500(config)#aaa authorization network CTSlist group radius
6500(config)#cts authorization list CTSlist
```

```
Radius Server Configuration
6500(config)#radius server ISE
6500(config-radius-server)#address ipv4 14.36.143.18 auth-port 1812 acct-port 1813
6500(config-radius-server)#pac key Cisc0123
```

```
Recognize and use vendor-specific attributes
6500(config)#radius-server vsa send authentication
```

```
Enable Change of Authorization
6500(config)#aaa server radius dynamic-author
6500(config-locsrv-da-radius)#client 14.36.143.18 server-key Cisc0123
```

```
Enable 802.1X
6500(config)#dot1x system-auth-control
```

```
Switchport TrustSec Configuration
6500(config)#int gi6/1
6500(config-if)#switchport mode trunk
6500(config-if)#cts dot1x
6500(config-if-cts-dot1x)#sap mode-list null
6500(config-if-cts-dot1x)#propagate sgt
```

Vérification

PAC Download

```
6500#show cts pac
AID: 6F5719523570B8D229F23073404E2D37
PAC-Info:
    PAC-type = Cisco Trustsec
    AID: 6F5719523570B8D229F23073404E2D37
    I-ID: 6500
    A-ID-Info: ISE 2.2p1
    Credential Lifetime: 04:27:29 UTC Oct 26 2017
PAC-Opaque:
000200B000030001000400106F5719523570B8D229F23073404E2D370006009400030100801062F6BE70E2CCB6B0D25B
FC81CB5D00000013597A55C100093A8059F0E1A3FAF83A2B7C8332479B7324C0FDC4CBAE9AE4AFD19C614A7DB13C9DBD
06798A344423897745F0F91F19489772E543ED205A9CD0F276A96C4505BF34CB75F132377FE770B77A3D822842DFE3A0
A858130612D08DD58965B09C352E33E74DB3F6B5C7E1F6EC8C30FF215A6FEB3EA7BBC95E
Refresh timer is set for 12w5d
```

Environment Data

```
6500#show cts environment-data
CTS Environment Data
=====
Current state = COMPLETE
Last status = Successful
Local Device SGT:
    SGT tag = 2-02:TrustSec_Devices
Server List Info:
Installed list: CTSServerList1-0001, 1 server(s):
    *Server: 14.36.143.18, port 1812, A-ID 6F5719523570B8D229F23073404E2D37
        Status = ALIVE
        auto-test = TRUE, keywrap-enable = FALSE, idle-time = 60 mins, deadtime = 20 secs
Multicast Group SGT Table:
Security Group Name Table:
    0-fb:Unknown
    2-fb:TrustSec_Devices
    3-fb:Network_Services
    4-fb:Employees
    5-fb:Contractors
    6-fb:Guests
    7-fb:Production_Users
```

```
8-fb:Developers
9-fb:Auditors
10-fb:Point_of_Sale_Systems
11-fb:Production_Servers
12-fb:Development_Servers
13-fb:Test_Servers
14-fb:PCI_Servers
15-fb:BYOD
255-fb:Quarantined_Systems
Environment Data Lifetime = 86400 secs
Last update time = 20:28:36 UTC Thu Jul 27 2017
Env-data expires in 0:23:47:05 (dd:hr:mm:sec)
Env-data refreshes in 0:23:47:05 (dd:hr:mm:sec)
Cache data applied = NONE
State Machine is running
```

Journaux ISE Live

Opérations > RADIUS > Journaux en direct

Provisionnement PAC

| | | | | |
|-------------------------------------|-------------------------|------|------|-------------------|
| <input checked="" type="checkbox"/> | | 6500 | 6500 | 00:26:CA:1E:74:40 |
| <h3>Authentication Details</h3> | | | | |
| Source Timestamp | 2017-07-28 00:27:29.948 | | | |
| Received Timestamp | 2017-07-28 00:27:29.949 | | | |
| Policy Server | ISE22new | | | |
| Event | 5206 PAC provisioned | | | |
| Username | 6500 | | | |
| Endpoint Id | 00:26:CA:1E:74:40 | | | |
| Calling Station Id | 0026ca1e7440 | | | |
| Authentication Identity Store | Internal CTS Devices | | | |
| Authentication Method | dot1x | | | |
| Authentication Protocol | EAP-FAST (EAP-MSCHAPv2) | | | |
| Service Type | Framed | | | |
| Network Device | 6500 | | | |

CiscoAVPair

AAA:service-type=cts-pac-provisioning

Téléchargement des données TrustSec

| | | | | |
|-------------------------------------|--|------|--------------|------------------------------------|
| <input checked="" type="checkbox"/> | | 6500 | #CTSREQUEST# | |
| <input checked="" type="checkbox"/> | | 6500 | #CTSREQUEST# | |
| <input checked="" type="checkbox"/> | | 6500 | #CTSREQUEST# | NetworkDeviceAuthorization >> NDAC |

Authentication Details

| | |
|--------------------|---------------------------------------|
| Source Timestamp | 2017-07-28 00:28:00.73 |
| Received Timestamp | 2017-07-28 00:28:00.731 |
| Policy Server | ISE22new |
| Event | 5233 TrustSec Data Download Succeeded |
| Username | #CTSREQUEST# |
| Service Type | Outbound |
| Network Device | 6500 |
| Device Type | All Device Types |
| Location | All Locations |
| NAS IPv4 Address | 10.122.165.35 |
| Security Group | TrustSec_Devices |
| Response Time | 26 milliseconds |

Other Attributes

| | |
|--------------------------------|--|
| ConfigVersionId | 81 |
| DestinationPort | 1812 |
| Protocol | Radius |
| NetworkDeviceProfileName | Cisco |
| NetworkDeviceProfileId | b0699505-3150-4215-a80e-6753d45bf56c |
| IsThirdPartyDeviceFlow | false |
| AcsSessionID | ISE22new/290042933/391 |
| AuthorizationPolicyMatchedRule | NDAC |
| CPMSessionID | 0e248f12uRp7Oyjg47Xw5P1a3ocsnKLGOWxUEIAEeOP9HaC6aEs |
| ISEPolicySetName | NetworkDeviceAuthorization |
| DTLSSupport | Unknown |
| Network Device Profile | Cisco |
| Location | Location#All Locations |
| Device Type | Device Type#All Device Types |
| IPSEC | IPSEC#Is IPSEC Device#No |
| RADIUS Username | #CTSREQUEST# |
| Device IP Address | 10.122.165.35 |
| CiscoAVPair | cts-pac-opaque="****, cts-environment-data=6500, cts-device-capability=env-data-fragment |

Result

| | |
|---------------|---|
| State | ReauthSession:0e248f12uRp7Oyjg47Xw5P1a3ocsnKLGOWxUEIAEeOP9HaC6aEs |
| Class | CACS:0e248f12uRp7Oyjg47Xw5P1a3ocsnKLGOWxUEIAEeOP9HaC6aEs:ISE22new/290042933/391 |
| 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=0001-17 |

Result

| | |
|---------------|---|
| Class | CACS:0e248f12uRp7Oyjg47Xw5P1a3ocsnKLGOWxUEIAEeOP9HaC6aEs:ISE22 new/290042933/392 |
| cisco-av-pair | cts:server-list=CTSServerList1-0001 |
| cisco-av-pair | cts:server=6f5719523570b8d229f23073404e2d37:14.36.143.18:1812 |

Result

| | |
|---------------|---|
| Class | CACS:0e248f12uRp7Oyjg47Xw5P1a3ocsnKLGOWxUEIAEeOP9HaC6aEs:ISE22 new/290042933/393 |
| cisco-av-pair | cts:security-group-table=0001-17 |
| cisco-av-pair | cts:security-group-info=0-0-0-Unknown |
| cisco-av-pair | cts:security-group-info=ffff-1-00-ANY |
| cisco-av-pair | cts:security-group-info=9-0-0-0-Auditors |
| cisco-av-pair | cts:security-group-info=f-0-0-0-BYOD |
| cisco-av-pair | cts:security-group-info=5-0-0-0-Contractors |
| cisco-av-pair | cts:security-group-info=8-0-0-0-Developers |
| cisco-av-pair | cts:security-group-info=c-0-0-0-Development_Servers |
| cisco-av-pair | cts:security-group-info=4-0-0-0-Employees |
| cisco-av-pair | cts:security-group-info=6-2-0-0-Guests |
| cisco-av-pair | cts:security-group-info=3-0-0-0-Network_Services |
| cisco-av-pair | cts:security-group-info=e-0-0-0-PCI_Servers |
| cisco-av-pair | cts:security-group-info=a-0-0-0-Point_of_Sale_Systems |
| cisco-av-pair | cts:security-group-info=b-0-0-0-Production_Servers |
| cisco-av-pair | cts:security-group-info=7-0-0-0-Production_Users |
| cisco-av-pair | cts:security-group-info=ff-0-0-0-Quarantined_Systems |
| cisco-av-pair | cts:security-group-info=d-0-0-0-Test_Servers |
| cisco-av-pair | cts:security-group-info=2-2-0-0-TrustSec_Devices |

Configuration des périphériques non amorçables (3560X)

```

TrustSec Credentials
3560X#cts credentials id 3560X password Cisc0123

AAA configuration
3560X(config)#aaa new-model
3560X(config)#aaa authentication dot1x default group radius
3560X(config)#aaa authorization network default group radius
3560X(config)#aaa accounting identity default start-stop group radius

Recognize and use vendor-specific attributes
3560X(config)#radius-server vsa send authentication

Enable Change of Authorization
3560X(config)#aaa server radius dynamic-author
3560X(config-locsvr-da-radius)#client 14.36.143.18 server-key Cisc0123

Enable 802.1X
3560X(config)#dot1x system-auth-control

Switchport TrustSec Configuration
3560X(config)#int gi0/24
3560X(config-if)#switchport trunk encapsulation dot1q
3560X(config-if)#switchport mode trunk
3560X(config-if)#cts dot1x
3560X(config-if-cts-dot1x)#sap mode-list null
3560X(config-if-cts-dot1x)#propagate sgt

```

Vérification

```

Pac Download
3560X#show cts pac
AID: 6F5719523570B8D229F23073404E2D37
PAC-Info:
  PAC-type = Cisco Trustsec
  AID: 6F5719523570B8D229F23073404E2D37
  I-ID: 3560X
  A-ID-Info: ISE 2.2p1
  Credential Lifetime: 05:32:57 UTC Oct 26 2017
  PAC-Opaque:
000200B000030001000400106F5719523570B8D229F23073404E2D3700060094000301009F9B0624C0A0C5D2AFDAE89
C173D34300000013597A55C100093A8059F0E1A3FAF83A2B7C8332479B7324C0B224F18D8654C2DB14544B58296A0A97
C7B52EB1B7C0725776FE16F715094AC8A766E1F6D16A2A151B70632D6EAB34C5E1874409779FADA53F5892AD4ACC3533
B5A61F89D028C076D94B52744A328C23437306AF428162AC680742003C6BDDB207A08F57
  Refresh timer is set for 11y42w

```

```

Environment Data
3560X#show cts environment-data
CTS Environment Data
=====
Current state = COMPLETE
Last status = Successful
Local Device SGT:
  SGT tag = 2-02:TrustSec_Devices
Server List Info:
Installed list: CTSServerList1-0001, 1 server(s):
 *Server: 14.36.143.18, port 1812, A-ID 6F5719523570B8D229F23073404E2D37
   Status = ALIVE
   auto-test = TRUE, keywrap-enable = FALSE, idle-time = 60 mins, deadtime = 20 secs
Multicast Group SGT Table:
Security Group Name Table:
  0-d1:Unknown
  2-d1:TrustSec_Devices

```

```
3-d1:Network_Services
4-d1:Employees
5-d1:Contractors
6-d1:Guests
7-d1:Production_Users
8-d1:Developers
9-d1:Auditors
10-d1:Point_of_Sale_Systems
11-d1:Production_Servers
12-d1:Development_Servers
13-d1:Test_Servers
14-d1:PCI_Servers
15-d1:BYOD
255-d1:Quarantined_Systems
Environment Data Lifetime = 86400 secs
Last update time = 02:41:21 UTC Mon Jan 2 2006
Env-data expires in 0:23:56:36 (dd:hr:mm:sec)
Env-data refreshes in 0:23:56:36 (dd:hr:mm:sec)
Cache data applied = NONE
State Machine is running
```

Journaux ISE Live

Opérations > RADIUS > Journaux en direct

Provisionnement PAC

| | | | | |
|-------------------------------------|--|------|-------|-------------------|
| <input checked="" type="checkbox"/> | | 6500 | 3560X | 54:A2:74:FC:A1:98 |
|-------------------------------------|--|------|-------|-------------------|

Authentication Details

| | |
|-------------------------------|--------------------------|
| Source Timestamp | 2017-07-28 01:32:57.707 |
| Received Timestamp | 2017-07-28 01:32:57.708 |
| Policy Server | ISE22new |
| Event | 5206 PAC provisioned |
| Username | 3560X |
| Endpoint Id | 54:A2:74:FC:A1:98 |
| Calling Station Id | 54-A2-74-FC-A1-98 |
| Authentication Identity Store | Internal CTS Devices |
| Audit Session Id | 0A7AA523000000100094C0F0 |
| Authentication Method | dot1x |
| Authentication Protocol | EAP-FAST (EAP-MSCHAPv2) |
| Service Type | Framed |
| Network Device | 6500 |

| | |
|-------------|---|
| CiscoAVPair | cts-pac-opaque=****, service-type=Framed, cts-capabilities=sap, audit-session-id=0A7AA523000000100094C0F0, method=dot1x |
|-------------|---|

Authentification sans amorçage

 6500 3560X NetworkDeviceAuthorization >> NDAC 54:A2:74:FC:A1:98

Overview

| | |
|----------------------|---|
| Event | 5200 Authentication succeeded |
| Username | 3560X |
| Endpoint Id | 54:A2:74:FC:A1:98  |
| Endpoint Profile | |
| Authorization Policy | NetworkDeviceAuthorization >> NDAC |
| Authorization Result | Permit Access |

Result

| | |
|------------------|---|
| User-Name | 3560X |
| State | ReauthSession:0A7AA523000000110094D88C |
| Class | CACS:0A7AA523000000110094D88C:ISE22new/290042933/396 |
| Session-Timeout | 86400 milliseconds |
| EAP-Key-Name | 2b:90:51:10:6d:f0:04:12:07:b1:ea:37:dd:a8:e7:f1:d3:9f:59:49:eb:3b:6d:fe:f4:bb:7c:f9:f5:2c:df:b6:e8:55:7b:cc:84:7c:fa:3a:86:be:a6:c7:93:63:96:03:57:c5:a4:46:bb:e0:19:e9:be:95:b4:37:12:f2:db:ae |
| cisco-av-pair | cts:security-group-tag=0002-02 |
| cisco-av-pair | cts:supplicant-cts-capabilities=sap |
| MS-MPPE-Send-Key | **** |
| MS-MPPE-Recv-Key | **** |

Téléchargement de la politique d'homologue mutuel

| | | | |
|---|-------|-------------------|------------------------------------|
|   | 3560X | #CTSDEVICE#-6500 | NetworkDeviceAuthorization >> NDAC |
|   | 6500 | #CTSDEVICE#-3560X | NetworkDeviceAuthorization >> NDAC |

Overview

| | |
|----------------------|--|
| Event | 5234 TrustSec Peer Policy Download Succeeded |
| Username | #CTSDEVICE#-3560X |
| Endpoint Id | |
| Endpoint Profile | |
| Authorization Policy | NetworkDeviceAuthorization >> NDAC |
| Authorization Result | |

Result

| | |
|---------------|---|
| State | ReauthSession:0e248f12oMzxY0d6l0OEZ/u3aFQs2AoZYPCddb7dJCSt7yoNlwg |
| Class | CACS:0e248f12oMzxY0d6l0OEZ/u3aFQs2AoZYPCddb7dJCSt7yoNlwg:ISE22new/290042933/397 |
| cisco-av-pair | cts:trusted-device=true |
| cisco-av-pair | cts:security-group-lag=0002-02 |
| cisco-av-pair | cts:authorization-expiry=86400 |

Overview

| | |
|----------------------|--|
| Event | 5234 TrustSec Peer Policy Download Succeeded |
| Username | #CTSDEVICE#-6500 |
| Endpoint Id | |
| Endpoint Profile | |
| Authorization Policy | NetworkDeviceAuthorization >> NDAC |
| Authorization Result | |

Result

| | |
|---------------|---|
| State | ReauthSession:0e248f122xsxXRQJut5/BzqahPizdpEcb22WZ6zPRPmu0Ms03Bo |
| Class | CACS:0e248f122xsxXRQJut5/BzqahPizdpEcb22WZ6zPRPmu0Ms03Bo:ISE22new/290042933/399 |
| cisco-av-pair | cts:trusted-device=true |
| cisco-av-pair | cts:security-group-tag=0002-02 |
| cisco-av-pair | cts:authorization-expiry=86400 |

Téléchargement des données TrustSec

| | | | |
|-------------------------------------|--|-------|---|
| <input checked="" type="checkbox"/> | | 3560X | #CTSREQUEST# |
| <input checked="" type="checkbox"/> | | 3560X | #CTSREQUEST# |
| <input checked="" type="checkbox"/> | | 3560X | #CTSREQUEST# NetworkDeviceAuthorization >> NDAC |

Overview

| | |
|----------------------|---------------------------------------|
| Event | 5233 TrustSec Data Download Succeeded |
| Username | #CTSREQUEST# |
| Endpoint Id | |
| Endpoint Profile | |
| Authorization Policy | NetworkDeviceAuthorization >> NDAC |
| Authorization Result | |

Result

| | |
|---------------|---|
| State | ReauthSession:0e248f12IVQjPrZ3n038zkt2xhOYWXRJhCAjw_hXw5UAJbMvsLY |
| Class | CACS:0e248f12IVQjPrZ3n038zkt2xhOYWXRJhCAjw_hXw5UAJbMvsLY:ISE22new/290042933/398 |
| 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=0001-17 |

Result

| | |
|---------------|---|
| Class | CACS:0e248f12IVQjPrZ3n038zkt2xhOYWXRJhCAjw_hXw5UAJbMvsLY:ISE22new/290042933/400 |
| cisco-av-pair | cts:server-list=CTSServerList1-0001 |
| cisco-av-pair | cts:server=6f5719523570b8d229f23073404e2d37:14.36.143.18:1812 |

Result

| | |
|---------------|---|
| Class | CACS:0e248f12IVQjPrZ3n038zkt2xhOYWXRJhCAjw_hXw5UAJbMvsLY:ISE22new/290042933/401 |
| cisco-av-pair | cts:security-group-table=0001-17 |
| 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 |

Vérification de l'interface

```
seed (6500)
6500#show cts interface gi6/1
Global Dot1x feature is Enabled
Interface GigabitEthernet6/1:
  CTS is enabled, mode:      DOT1X
  IFC state:                OPEN
  Interface Active for 00:38:50.744
  Authentication Status:    SUCCEEDED
    Peer identity:          "3560X"
    Peer's advertised capabilities: "sap"
    802.1X role:            Authenticator
  Authorization Status:     SUCCEEDED
```

```
Peer SGT:          2:TrustSec_Devices
Peer SGT assignment: Trusted
SAP Status:        SUCCEEDED
Dot1x Info for GigabitEthernet6/1
-----
PAE             = AUTHENTICATOR

Non-Seed (3560X)
3560X#show cts interface gi0/24
Global Dot1x feature is Enabled
Interface GigabitEthernet0/24:
    CTS is enabled, mode:      DOT1X
    IFC state:                OPEN
    Interface Active for 00:08:51.317
    Authentication Status:    SUCCEEDED
        Peer identity:        "6500"
        Peer's advertised capabilities: "sap"
        802.1X role:          Supplicant
        Reauth period applied to link: Not applicable to Supplicant role
    Authorization Status:    SUCCEEDED
        Peer SGT:              2:TrustSec_Devices
        Peer SGT assignment:   Trusted
        SAP Status:            SUCCEEDED
        Version:               2
Dot1x Info for GigabitEthernet0/24
-----
PAE             = SUPPLICANT
```