H3C WLAN基本テストケースリファレンス

(デバイスモデルに基づいて適切なテストケースを参考にしてください)

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機能の概要

このドキュメントは、WLANで頻繁に使用されるテストケースのリファレンスガイドです。製品モデルとサポートされている機能に基づいて、適切なテストケースを選択してください。

このドキュメントに記載されている機能は、必ずしもすべてのAC/APモデルでサポートされているわけで はありません。特定のAC/APモデルでサポートされている機能については、公式ウェブサイトを参照してく ださい。

これらのテストケースは、テスト目的でラボ環境で使用してください。ユーザーのビジネスへの影響を防ぐために、設定をコピーしたり、本番ネットワークのテストケースから直接IPアドレスを使用したりしないでください。

T01ライセンス管理

目的

ライセンス管理 ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

```
テスト手順
```

2.

1. ACのライセンスステータスを確認します。

[DUT-AC] display license Slot 1: cfa0:/license/210235A1JPB18A0001132023062013580456915.ak Feature: APMGR Product Description: Enhanced Access Controller License,8 APs,for Verticals,for V7V9 Registered at: 2023-06-20 14:27:25 License Type: Trial (days restricted) Trial Time Left (days): 0 Current State: Expired ACデバイスIDを確認します。

- [DUT-AC] display license device-id slot 1 SN: 210235A3MLB21B000004 SN CHECK_SUM: C3EB1400 Device ID: cfa0:/license/210235A3MLB21B000004.did
- デバイスIDファイルをFTPでPCにダウンロードします。 ftp> put license/210235A3MLB21B000004.did
- 4. licensing.h3c.comからライセンスキー認証コードを適用します。
- 5. 認証コードに従って、licensing.h3c.comからアクティベーションキーを適用します。

```
6. ACでアクティベーションキーをダウンロードしてインストールします。
ftp> get 210235A3MLB21B0000042023081110033727112.ak
ftp> quit
< DUT-AC> system-view
[DUT-AC] license activation-key install
210235A3MLB21B0000042023081110033727112.ak
This operation might take some time. Do not perform any other operations until
this operation is completed. Please wait...Done.
```

7. ACのライセンスステータスをチェックします。結果1が予期されます。

期待される結果

ライセンスの現在の状態は「in use」です。

備考

内部番号 T01

T02 APレイヤ2登録

目的

APレイヤ2登録 ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

```
スイッチ1のVLAN、インターフェイスVLAN、およびDHCP IPプールを設定します。
1.
    [SW1] vlan 10
    [SW1-vlan10] interface Vlan-interface 10
    [SW1-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
    [SW1-Vlan-interface10]quit
    [SW1] vlan 20
    [SW1-vlan20] interface Vlan-interface 20
    [SW1-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
    [SW1-Vlan-interface20] quit
    [SW1] vlan 30
    [SW1-vlan30] interface Vlan-interface 30
    [SW1-Vlan-interface30] ip address 30.1.1.1 255.255.255.0
    [SW1-Vlan-interface30] quit
    [SW1] dhcp enable
    [SW1] dhcp server ip-pool 10
    [SW1-dhcp-pool-10] gateway-list 10.1.1.1
    [SW1-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-10] quit
    [SW1] dhcp server ip-pool 20
    [SW1-dhcp-pool-20] gateway-list 20.1.1.1
    [SW1-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-20] quit
    [SW1] dhcp server ip-pool 30
    [SW1-dhcp-pool-30] gateway-list 30.1.1.1
    [SW1-dhcp-pool-30] network 30.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-30] quit
2. トランクおよびアクセスポートを使用して、スイッチ1のインターフェイスGE1/0/1およびGE1/0/2を設
```

```
定します。
    [SW1] interface GigabitEthernet 1/0/1
    [SW1-GigabitEthernet1/0/1] port link-type trunk
    [SW1-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [SW1-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[SW1-GigabitEthernet1/0/1] quit
    [SW1] interface GigabitEthernet 1/0/2
    [SW1-GigabitEthernet1/0/2] port access vlan 30
    [SW1-GigabitEthernet1/0/2] quit
3.
   スイッチ2のポートとVLANを設定します。
    [SW2] vlan 10
    [SW2-vlan10] quit
    [SW2] vlan 20
    [SW2-vlan20] quit
    [SW2] vlan 30
    [SW2-vlan30] guit
    [SW2] interface GigabitEthernet 1/0/1
    [SW2-GigabitEthernet1/0/1] port link-type trunk
    [SW2-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [SW2-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [SW2-GigabitEthernet1/0/1] quit
    [SW2] interface GigabitEthernet 1/0/2
    [SW2-GigabitEthernet1/0/2] port link-type trunk
    [SW2-GigabitEthernet1/0/2] undo port trunk permit vlan 1
    [SW2-GigabitEthernet1/0/2] port trunk permit vlan 10 20
    [SW2-GigabitEthernet1/0/2] quit
    [SW2] interface GigabitEthernet 1/0/3
    [SW2-GigabitEthernet1/0/3] port access vlan 20
    [SW2-GigabitEthernet1/0/3] quit
4. スイッチ3のポートとVLANを設定します。
    [SW3] vlan 30
    [SW3-vlan30] quit
    [SW3] interface GigabitEthernet 1/0/1
    [SW3-GigabitEthernet1/0/1] port access vlan 30
    [SW3-GigabitEthernet1/0/1] quit
    [SW3] interface GigabitEthernet 1/0/2
    [SW3-GigabitEthernet1/0/2] port access vlan 30
    [SW3-GigabitEthernet1/0/2] quit
5. VLANおよびインターフェイスVLANを使用してACを設定します。WLANサービステンプレートを設定
    し、APをバインドします。
    [AC] vlan 10
    [AC-vlan10] interface Vlan-interface 10
    [AC-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
    [AC-Vlan-interface10] quit
    [AC] vlan 20
    [AC-vlan20] interface Vlan-interface 20
    [AC-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
    [AC-Vlan-interface20] quit
    [AC] interface GigabitEthernet 1/0/0
    [AC-GigabitEthernet1/0/0] port link-type trunk
    [AC-GigabitEthernet1/0/0] undo port trunk permit vlan 1
    [AC-GigabitEthernet1/0/0] port trunk permit vlan 10 20
    [AC-GigabitEthernet1/0/0] quit
    [AC] wlan service-template 1
    [AC-wlan-st-1] ssid l2-regist
    [AC-wlan-st-1] vlan 10
    [AC-wlan-st-1] service-template enable
    [AC-wlan-st-1] quit
    [AC]wlan ap ap1 model WA6320
    [AC-wlan-ap-ap1] serial-id xxxxxxx
    [AC-wlan-ap-ap1] radio 1
    [AC-wlan-ap-ap1-radio-1] radio enable
    [AC-wlan-ap-ap1-radio-1] service-template 1
    [AC-wlan-ap-ap1-radio-1] quit
    [AC-wlan-ap-ap1] quit
```

6. クライアントとホストがIPアドレスを取得し、相互にpingを実行できるかどうかを確認します。結果1が 予想されます。

```
期待される結果
```

クライアントとホストの両方がDHCP IPプールからIPアドレスを取得できます。クライアントとホストは相互

にpingを実行できます。

備考

内部番号

^{T02} T03 APレイヤ3登録

目的

APレイヤ3登録 ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

 スイッチ1のVLAN、インターフェイスVLAN、およびDHCP IPプールを設定します。APのDHCP IPプ ール40にオプション43を設定します。最後の8ビットの値は、ACのIPアドレスの16進数です(例では 0a010102は10.1.1.2です)。

```
[SW1] vlan 10
[SW1-vlan10] interface Vlan-interface 10
[SW1-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
[SW1-Vlan-interface10]quit
[SW1] vlan 20
[SW1-vlan20] interface Vlan-interface 20
[SW1-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
[SW1-Vlan-interface20] quit
[SW1] vlan 30
[SW1-vlan30] interface Vlan-interface 30
[SW1-Vlan-interface30] ip address 30.1.1.1 255.255.255.0
[SW1-Vlan-interface30] guit
[SW1] vlan 40
[SW1-vlan40] interface Vlan-interface 40
[SW1-Vlan-interface40] ip address 40.1.1.1 255.255.255.0
[SW1-Vlan-interface40] quit
[SW1] dhcp enable
[SW1] dhcp server ip-pool 20
[SW1-dhcp-pool-20] gateway-list 20.1.1.1
[SW1-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
[SW1-dhcp-pool-20] quit
[SW1] dhcp server ip-pool 30
```

```
[SW1-dhcp-pool-30] gateway-list 30.1.1.1
    [SW1-dhcp-pool-30] network 30.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-30] guit
    [SW1] dhcp server ip-pool 40
    [SW1-dhcp-pool-40] gateway-list 40.1.1.1
    [SW1-dhcp-pool-40] network 40.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-40] option 43 hex 80070000010a010102
    [SW1-dhcp-pool-40] quit
    トランクおよびアクセスポートを使用して、スイッチ1のインターフェイスGE1/0/1およびGE1/0/2を設
2.
    定します。
    [SW1] interface GigabitEthernet 1/0/1
    [SW1-GigabitEthernet1/0/1] port link-type trunk
    [SW1-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [SW1-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[SW1-GigabitEthernet1/0/1] quit
    [SW1] interface GigabitEthernet 1/0/2
    [SW1-GigabitEthernet1/0/2] port access vlan 30
    [SW1-GigabitEthernet1/0/2] quit
    Switch 2のポートとVLANを設定します:
    [SW2] vlan 40
    [SW2-vlan40] quit
    [SW2] interface GigabitEthernet 1/0/1
    [SW2-GigabitEthernet1/0/1] port access vlan 40
    [SW2-GigabitEthernet1/0/1] guit
    [SW2] interface GigabitEthernet 1/0/2
    [SW2-GigabitEthernet1/0/2] port access vlan 40
    [SW2-GigabitEthernet1/0/2] quit
    スイッチ3のポートとVLANを設定します。
3.
    [SW3] vlan 30
    [SW3-vlan30] quit
    [SW3] interface GigabitEthernet 1/0/1
    [SW3-GigabitEthernet1/0/1] port access vlan 30
    [SW3-GigabitEthernet1/0/1] guit
    [SW3] interface GigabitEthernet 1/0/2
    [SW3-GigabitEthernet1/0/2] port access vlan 30
    [SW3-GigabitEthernet1/0/2] quit
4. VLANおよびインターフェイスVLANを使用してACを設定します。WLANサービステンプレートを設定
    し、APをバインドします。
    スイッチ1 VLANインターフェイス10(10.1.1.1)にデフォルトルートポイントを追加します。
    [AC] ip route-static 0.0.0.0 0 10.1.1.1
    [AC] vlan 10
    [AC-vlan10] interface Vlan-interface 10
    [AC-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
    [AC-Vlan-interface10] quit
    [AC] vlan 20
    [AC-vlan20] interface Vlan-interface 20
    [AC-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
    [AC-Vlan-interface20] quit
    [AC] interface GigabitEthernet 1/0/0
    [AC-GigabitEthernet1/0/0] port link-type trunk
    [AC-GigabitEthernet1/0/0] undo port trunk permit vlan 1
    [AC-GigabitEthernet1/0/0] port trunk permit vlan 10 20
    [AC-GigabitEthernet1/0/0] guit
    [AC] wlan service-template 1
    [AC-wlan-st-1] ssid 13-regist
    [AC-wlan-st-1] vlan 20
    [AC-wlan-st-1] service-template enable
    [AC-wlan-st-1] quit
    [AC]wlan ap ap1 model WA6320
    [AC-wlan-ap-ap1] serial-id xxxxxxx
    [AC-wlan-ap-ap1] radio 1
    [AC-wlan-ap-apl-radio-1] radio enable
[AC-wlan-ap-apl-radio-1] service-template 1
    [AC-wlan-ap-ap1-radio-1] quit
    [AC-wlan-ap-ap1] quit
5.
  クライアントとホストがIPアドレスを取得し、相互にpingを実行できるかどうかを確認します。結果1が
    予想されます。
```

```
期待される結果
```

クライアントとホストの両方がDHCP IPプールからIPアドレスを取得できます。クライアントとホストは相互 Icpingを実行できます。

備考

内部番号

T03

T04 SSHログインAC

目的

SSHログインAC ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

```
テスト手順
```

```
ACおよびスイッチのVLANおよびインターフェイスVLANを設定します。
1.
    [DUT-AC] vlan 10
    [DUT-AC-vlan10] quit
    [DUT-AC] interface Vlan-interface 10
    [DUT-AC-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
    [DUT-AC-Vlan-interface10] quit
    [DUT-AC] vlan 20
    [DUT-AC-vlan20] quit
    [DUT-AC] interface Vlan-interface 20
    [DUT-AC-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
    [DUT-AC-Vlan-interface20] quit
    [DUT-SW] vlan 10
    [DUT-SW-vlan10] quit
    [DUT-SW] interface Vlan-interface 10
    [DUT-SW-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface10] quit
    [DUT-SW] vlan 20
    [DUT-SW-vlan20] quit
    [DUT-SW] interface Vlan-interface 20
    [DUT-SW-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface20] quit
2.
    VLANと相対ポートを一致させるようにACおよびスイッチを設定します。
    [DUT-AC] interface GigabitEthernet 1/0/1
    [DUT-AC-GigabitEthernet1/0/1] port link-type trunk
    [DUT-AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [DUT-AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [DUT-AC-GigabitEthernet1/0/1] quit
    [DUT-SW] interface GigabitEthernet 1/0/2
    [DUT-SW-GigabitEthernet1/0/2] port link-type trunk
    [DUT-SW-GigabitEthernet1/0/2] port trunk permit vlan 1 10 20
```

```
[DUT-SW-GigabitEthernet1/0/2] quit
```

```
3. APおよび端末クライアントのDHCPサーバープールを使用してACを設定します。

[DUT-AC] dhcp enable

[DUT-AC] dhcp server ip-pool 10

[DUT-AC-dhcp-pool-10] gateway-list 10.1.1.1
```

```
[DUT-AC-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
             [DUT-AC-dhcp-pool-10] quit
             [DUT-AC] dhcp server ip-pool 20
            [DUT-AC-dhcp-pool-20] gateway-list 20.1.1.1
            [DUT-AC-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
            [DUT-AC-dhcp-pool-20] quit
           キーペアを使用してACを設定し、SSHサーバーをイネーブルにします。
        4.
            < DUT-AC> system-view
             [DUT-AC] public-key local create rsa
            The range of public key size is (512 ~ 2048).
            If the key modulus is greater than 512, it will take a few minutes.
            Press CTRL+C to abort.
            Input the modulus length [default = 1024]:
            Generating Keys...
            ..++++++++
             Create the key pair successfully.
            [DUT-AC] public-key local create dsa
            The range of public key size is (512 ~ 2048).
            If the key modulus is greater than 512, it will take a few minutes.
            Press CTRL+C to abort.
            Input the modulus length
            [default = 1024]:
            Generating Keys...
             .....+....+....+ .....+ .....+
             ...+....+...+...+...+...+...+...+...+...+.
            Create the key pair successfully.
            [DUT-AC] public-key local create ecdsa secp256r1
            Generating Keys...
            Create the key pair successfully.
            [DUT-AC] ssh server enable
            SSHログイン用のWLANサービステンプレートを設定します。
        5.
            [DUT-AC] wlan service-template ssh
            [DUT-AC-wlan-st-mac-auth] ssid ssh-test
            [DUT-AC-wlan-st-mac-auth] vlan 10
            [DUT-AC-wlan-st-mac-auth] service-template enable
            正しいシリアル番号を使用してACでAPを設定し、設定されたサービステンプレートをバインドします。
        6.
             [DUT-AC] wlan ap AP2 model WA6330
             [DUT-AC-wlan-ap-AP2] serial-id 219801A23V8219E00B3F
             [DUT-AC-wlan-ap-AP2] radio 1
             [DUT-AC-wlan-ap-AP2-radio-1] radio enable
             [DUT-AC-wlan-ap-AP2-radio-1] service-template ssh
        7. System Viewで、ACのAPを正しいシリアル番号で設定し、設定したサービステンプレートをバインド
            します。
            [DUT-AC] local-user admin class manage
            [DUT-AC-luser-manage-admin] password simple Password12345
[DUT-AC-luser-manage-admin] service-type ssh
        8.
            wlan ap allをACで表示します。結果1が期待されます。
            [DUT-AC] display wlan ap all
        9.
            Connect SSID'ssh-test'、結果2が期待されます。
        10. アカウント名と「admin」のパスワードを入力してください。結果は3が返されます。
期待される結果
        1.
            AP2は正常にオンラインになるはずです。
        2.
            端末はSSIDに正常に接続するはずです。
            PCログインAC成功。
        3.
内部番号
        T04
```



備考

目的

自動AP

ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

- テスト手順
 - 1. ACでVLAN 10とインターフェイスVLAN 10を設定し、ACのポートGE1/0/1をトランクポートに変更します。

```
[AC] vlan 10
[AC-vlan10] quit
[AC] interface Vlan-interface 10
[AC-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
[AC-Vlan-interface10] quit
[AC] interface GigabitEthernet 1/0/1
[AC-GigabitEthernet1/0/1] port link-type trunk
[AC-GigabitEthernet1/0/1] port trunk permit vlan 10
[AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
[AC-GigabitEthernet1/0/1] port trunk pvid vlan 10
[AC-GigabitEthernet1/0/1] quit
```

2. スイッチにVLAN 10を作成し、スイッチのGE1/0/1およびGE1/0/2のポート設定を変更します。

```
[SW] vlan 10
[SW-vlan10] quit
[SW] interface GigabitEthernet 1/0/1
[SW-GigabitEthernet1/0/1] port link-type trunk
[SW-GigabitEthernet1/0/1] undo port trunk permit vlan 1
[SW-GigabitEthernet1/0/1] port trunk permit vlan 10
[SW-GigabitEthernet1/0/1] quit
[SW] interface GigabitEthernet 1/0/2
[SW-GigabitEthernet1/0/2] port access vlan 10
[SW-GigabitEthernet1/0/2] quit
ACで自動AP機能を有効にします。
```

[AC] wlan auto-ap enable

- [AC] wlan auto-persistent enable
- 4. ACのAPステータスをチェックします。結果1が返されます。
- [AC] display wlan ap all

期待される結果

APは自動的にオンラインになります。

備考

内部番号

T05

3.

T06自動DFS

目的

自動DFS ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

 ACでVLAN 10、VLAN 110、VLAN 120、およびVLAN 130、ならびにインターフェイスVLAN 10、 110、120、および130を設定します。ACのポートGE1/0/1をトランクポートに変更します。

[AC] vlan 10 [AC-vlan10] quit [AC] interface Vlan-interface 10 [AC-Vlan-interface10] ip address 10.1.1.2 255.255.255.0 [AC-Vlan-interface10] quit [AC] vlan 110 [AC-vlan110] quit [AC] interface Vlan-interface 110 [AC-Vlan-interface110] ip address 110.1.1.2 255.255.255.0 [AC-Vlan-interface110] guit [AC] vlan 120 [AC-vlan120] guit [AC] interface Vlan-interface 120 [AC-Vlan-interface120] ip address 120.1.1.2 255.255.255.0 [AC-Vlan-interface120] quit [AC] vlan 130 [AC-vlan130] quit [AC] interface Vlan-interface 130 [AC-Vlan-interface130] ip address 130.1.1.2 255.255.255.0 [AC-Vlan-interface130] quit [AC] interface GigabitEthernet 1/0/1 [AC-GigabitEthernet1/0/1] port link-type trunk [AC-GigabitEthernet1/0/1] port trunk permit vlan 10 110 120 130 [AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1 [AC-GigabitEthernet1/0/1] quit

スイッチ上にDHCP IPプールを作成します。スイッチ上にVLAN 10、110、120、および130を作成します。インターフェイスVLAN 10、110、120、および130を設定します。スイッチ上のGE1/0/1およびGE1/0/2のポート設定を変更します。
[SW] dhcp enable

```
[SW] dhcp server ip-pool 10
[SW-dhcp-pool-10] gateway-list 10.1.1.1
[SW-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
[SW-dhcp-pool-10] quit
[SW] dhcp server ip-pool 110
[SW-dhcp-pool-110] gateway-list 110.1.1.1
[SW-dhcp-pool-110] network 110.1.1.0 mask 255.255.255.0
[SW-dhcp-pool-110] quit
[SW] dhcp server ip-pool 120
[SW-dhcp-pool-120] gateway-list 120.1.1.1
[SW-dhcp-pool-120] network 120.1.1.0 mask 255.255.255.0
[SW-dhcp-pool-120] quit
[SW] dhcp server ip-pool 130
[SW-dhcp-pool-130] gateway-list 130.1.1.1
[SW-dhcp-pool-130] network 130.1.1.0 mask 255.255.255.0
[SW-dhcp-pool-130] quit
[SW] vlan 10
[SW-vlan10] quit
[SW] interface Vlan-interface 10
```

```
[SW-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
    [SW-Vlan-interface10] quit
    [SW] vlan 110
    [SW-vlan110] guit
    [SW] interface Vlan-interface 110
    [SW-Vlan-interface110] ip address 110.1.1.1 255.255.255.0
    [SW-Vlan-interface110] quit
    [SW] vlan 120
    [SW-vlan120] quit
    [SW] interface Vlan-interface 120
    [SW-Vlan-interface120] ip address 120.1.1.1 255.255.255.0
    [SW-Vlan-interface120] quit
    [SW] vlan 130
    [SW-vlan130] quit
    [SW] interface Vlan-interface 130
    [SW-Vlan-interface130] ip address 130.1.1.1 255.255.255.0
    [SW-Vlan-interface130] quit
    [SW] interface GigabitEthernet 1/0/1
    [SW-GigabitEthernet1/0/1] port link-type trunk
    [SW-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [SW-GigabitEthernet1/0/1] port trunk permit vlan 10 110 120 130
     [SW-GigabitEthernet1/0/1] quit
    [SW] interface range GigabitEthernet 1/0/2 to GigabitEthernet 1/0/4
    [SW-if-range] port access vlan 10
    [SW-if-range] quit
3.
    サービステンプレートを作成し、AC上の3つのAPIにバインドします。
    [AC] wlan service-template 1
    [AC-wlan-st-1] ssid auto-dfs
    [AC-wlan-st-1] service-template enable
    [AC-wlan-st-1] quit
    [AC]wlan ap ap1 model WA6320
    [AC-wlan-ap-ap1] serial-id xxxxxxx
    [AC-wlan-ap-ap1] radio 1
    [AC-wlan-ap-ap1-radio-1] radio enable
[AC-wlan-ap-ap1-radio-1] service-template 1 vlan 110
    [AC-wlan-ap-ap1-radio-1] quit
    [AC-wlan-ap-ap1] quit
    [AC]wlan ap ap2 model WA6320
    [AC-wlan-ap-ap2] serial-id xxxxxxx
    [AC-wlan-ap-ap2] radio 1
    [AC-wlan-ap-ap2-radio-1] radio enable
[AC-wlan-ap-ap2-radio-1] service-template 1 vlan 120
    [AC-wlan-ap-ap2-radio-1] quit
    [AC-wlan-ap-ap2] quit
     [AC]wlan ap ap3 model WA6320
    [AC-wlan-ap-ap3] serial-id xxxxxxx
    [AC-wlan-ap-ap3] radio 1
    [AC-wlan-ap-ap3-radio-1] radio enable
[AC-wlan-ap-ap3-radio-1] service-template 1 vlan 130
    [AC-wlan-ap-ap3-radio-1] quit
    [AC-wlan-ap-ap3] quit
   3つのAPの無線1のチャネル情報をチェックします。結果1が予想されます。
4.
5. AP1で定期自動DFSを設定します。
    [AC] wlan ap ap1
    [AC-wlan-ap-ap1] radio 1
    [AC-wlan-ap-ap1-radio-1] rrm
    [AC-wlan-ap-ap1-radio-1-rrm] calibrate-channel self-decisive enable
    [AC-wlan-ap-ap1-radio-1-rrm] calibrate-channel mode periodic
    [AC-wlan-ap-ap1-radio-1-rrm] crc-error-threshold 20
    [AC-wlan-ap-ap1-radio-1-rrm] channel-usage-threshold percent 70
    [AC-wlan-ap-ap1-radio-1-rrm] calibrate-channel interference-threshold percent 75
    [AC-wlan-ap-ap1-radio-1-rrm] tolerance-level 20
    [AC-wlan-ap-ap1-radio-1-rrm] quit
    [AC-wlan-ap-ap1-radio-1] quit
    [AC-wlan-ap-ap1] quit
    [AC] wlan rrm-calibration-group 10
```

```
12
```

```
[AC-wlan-rc-group-10] ap name ap1 radio 1
[AC-wlan-rc-group-10] channel holddown-time 10
```

AP3 の無線 1 のチャネルを AP1 の無線 1 の同じチャネルに変更します。結果 2 が予想されます。

期待される結果

- 1. 3つのAPには無線1に異なるチャネルが割り当てられているため、チャネルの重複は発生しません。
- 2. 無線1のAP1のチャネルは、自動的に別のアイドルチャネルに変更されます。

備考

内部番号

T06

```
T07ベーシックメッシュ
```

目的

```
基本メッシュ
```

ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

1

```
ACでVLAN 10、VLAN 20、およびインターフェイスVLAN 10、20を設定します。ACのポート
GE1/0/1をトランクポートに変更します。
[AC] vlan 10
[AC-vlan10] quit
[AC] interface Vlan-interface 10
[AC-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
[AC-Vlan-interface10] guit
[AC] vlan 20
[AC-vlan20] quit
[AC] interface Vlan-interface 20
[AC-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
[AC-Vlan-interface20] quit
[AC] interface GigabitEthernet 1/0/1
[AC-GigabitEthernet1/0/1] port link-type trunk
[AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
[AC-GigabitEthernet1/0/1] quit
```

2. スイッチ上にDHCP IPプールを作成します。スイッチ上にVLAN 10および20を作成します。インター フェイスVLAN 10および20を設定します。スイッチ上のGE1/0/1およびGE1/0/2のポート設定を変更

します。

```
[SW] dhcp enable
[SW] dhcp server ip-pool 10
[SW-dhcp-pool-10] gateway-list 10.1.1.1
[SW-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
[SW-dhcp-pool-10] quit
[SW] dhcp server ip-pool 20
[SW-dhcp-pool-20] gateway-list 20.1.1.1
[SW-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
[SW-dhcp-pool-20] quit
[SW] vlan 10
[SW-vlan10] quit
[SW] interface Vlan-interface 10
[SW-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
[SW-Vlan-interface10] quit
[SW] vlan 20
[SW-vlan20] quit
[SW] interface Vlan-interface 20
[SW-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
[SW-Vlan-interface20] quit
```

```
[SW] interface GigabitEthernet 1/0/1
    [SW-GigabitEthernet1/0/1] port link-type trunk
    [SW-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [SW-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [SW-GigabitEthernet1/0/1] quit
3. メッシュプロファイルを設定します。
    [AC] wlan mesh-profile 1
    [AC-wlan-mesh-profile-1] mesh-id mesh
    [AC-wlan-mesh-profile-1] akm mode sae
    [AC-wlan-mesh-profile-1] preshared-key pass-phrase simple 12345678
    [AC-wlan-mesh-profile-1] mesh-profile enable
    [AC-wlan-mesh-profile-1] quit
4. サービステンプレートを作成し、AC上のAPにバインドします。
    [AC] wlan service-template 1
    [AC-wlan-st-1] ssid mesh
    [AC-wlan-st-1] vlan 20
    [AC-wlan-st-1] service-template enable
    [AC-wlan-st-1] quit
```

```
[AC-wian-sc-1] quit
[AC]wlan ap ap1 model WA6320
[AC-wlan-ap-ap1] serial-id xxxxxxxx
[AC-wlan-ap-ap1] radio 1
```

[AC-wlan-ap-ap1-radio-1] quit

[AC-wlan-ap-ap1-radio-1] radio enable [AC-wlan-ap-ap1-radio-1] service-template 1

```
[AC-wlan-ap-ap1] quit
5. メッシュプロファイルをAP1とAP2にバインドし、AP1とAP2の両方に同じチャネルを設定します(この
例ではチャネル157が設定されており、ピアMACアドレスは反対側のAPのアドレスです)。
```

```
[AC] wlan ap apl
[AC-wlan-ap-apl] radio 1
[AC-wlan-ap-apl-radio-1] channel 157
[AC-wlan-ap-apl-radio-1] max-power 15
[AC-wlan-ap-apl-radio-1] mesh-profile 1
[AC-wlan-ap-apl-radio-1] mesh peer-mac-address xxxx-xxxx
[AC-wlan-ap-apl-radio-1] radio enable
[AC-wlan-ap-apl-radio-1] quit
[AC-wlan-ap-apl] quit
```

6. 別のACからAP2を設定します。

```
[AC] wlan ap ap2
[AC-wlan-ap-ap2] radio 1
[AC-wlan-ap-ap2-radio-1] channel 157
[AC-wlan-ap-ap2-radio-1] max-power 15
[AC-wlan-ap-ap2-radio-1] mesh-profile 1
[AC-wlan-ap-ap2-radio-1] mesh peer-mac-address yyyy-yyyy-yyyy
[AC-wlan-ap-ap2-radio-1] radio enable
[AC-wlan-ap-ap2-radio-1] quit
[AC-wlan-ap-ap2] quit
```

7. ACのメッシュリンク情報を表示します。結果1が予期されます:

[AC] display wlan mesh-link

期待される結果

AP1とAP2は正常にメッシュ分割されました。

```
備考
```

内部番号

T07

T08レイヤ2ローミング

目的

レイヤ2ローミング ネットワーク図



前提条件

- AC、スイッチ、および2つのAPは、上記のネットワークダイアグラムに従って接続されます。
- テスト手順

3.

1. AC上でVLAN 10および20とインターフェイスVLAN 10および20を設定し、ACのポートGE1/0/1をト ランクポートに変更します。

```
[AC] vlan 10
[AC-vlan10] quit
[AC] interface Vlan-interface 10
[AC-vlan-interface10] ip address 10.1.1.2 255.255.255.0
[AC-vlan-interface10] quit
[AC] vlan 20
[AC-vlan20] quit
[AC] interface Vlan-interface 20
[AC-vlan-interface20] ip address 20.1.1.2 255.255.255.0
[AC-vlan-interface20] quit
[AC] interface GigabitEthernet 1/0/1
[AC-GigabitEthernet1/0/1] port link-type trunk
[AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[AC-GigabitEthernet1/0/1] quit
```

2. スイッチ上にDHCP IPプールを作成します。スイッチ上にVLAN 10および20を作成します。インター フェイスVLAN10および20を設定し、スイッチ上のGE1/0/1およびGE1/0/2のポート設定を変更しま す。

```
[SW1] dhcp enable
[SW1] dhcp server ip-pool 10
[SW1-dhcp-pool-10] gateway-list 10.1.1.1
[SW1-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
[SW1-dhcp-pool-10] quit
[SW1] dhcp server ip-pool 20
[SW1-dhcp-pool-20] gateway-list 20.1.1.1
[SW1-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
[SW1-dhcp-pool-20] quit
[SW] vlan 10
[SW-vlan10] quit
[SW] interface Vlan-interface 10
[SW-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
[SW-Vlan-interface10] guit
[SW] vlan 20
[SW-vlan20] quit
[SW] interface Vlan-interface 20
[SW-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
[SW-Vlan-interface20] quit
[SW] interface GigabitEthernet 1/0/1
[SW-GigabitEthernet1/0/1] port link-type trunk
[SW-GigabitEthernet1/0/1] undo port trunk permit vlan 1
[SW-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[SW-GigabitEthernet1/0/1] quit
[SW] interface GigabitEthernet 1/0/2
[SW-GigabitEthernet1/0/2] port access vlan 10
[SW-GigabitEthernet1/0/2] quit
[SW] interface GigabitEthernet 1/0/3
[SW-GigabitEthernet1/0/3] port access vlan 10
[SW-GigabitEthernet1/0/3] quit
サービステンプレートを作成し、ACに2つのAPをバインドします。
[AC] wlan service-template 1
[AC-wlan-st-1] ssid l2-roaming
```

```
[AC-wlan-st-1] vlan 10
[AC-wlan-st-1] user-isolation enable
[AC-wlan-st-1] service-template enable
[AC-wlan-st-1] quit
[AC]wlan ap ap1 model WA6320
[AC-wlan-ap-ap1] serial-id xxxxxxx
[AC-wlan-ap-ap1] radio 1
[AC-wlan-ap-ap1-radio-1] radio enable
[AC-wlan-ap-ap1-radio-1] service-template 1
[AC-wlan-ap-ap1-radio-1] guit
[AC-wlan-ap-ap1] quit
[AC]wlan ap ap2 model WA6320
[AC-wlan-ap-ap2] serial-id xxxxxxx
[AC-wlan-ap-ap2] radio 1
[AC-wlan-ap-ap2-radio-1] radio enable
[AC-wlan-ap-ap2-radio-1] service-template 1
[AC-wlan-ap-ap2-radio-1] quit
[AC-wlan-ap-ap2] quit
```

4. 端末をAP1のSSIDに接続し、AP2の電波放射範囲に移動します。結果1が予想されます。 期待される結果

```
端末はAP1とAP2の間をローミングし、ローミング後に同じIPアドレスを取得できます。
```

備考

内部番号

T08

T09レイヤ3ローミング

目的

レイヤ3ローミング

ネットワーク図

前提条件

AC、スイッチ、および2つのAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

 AC上でVLAN 10および20とインターフェイスVLAN 1、10および20を設定し、ACのポートGE1/0/1 をトランクポートに変更します。

```
[AC] interface Vlan-interface 1
[AC-Vlan-interface1] ip address 1.1.1.2 255.255.255.0
[AC-Vlan-interface1] quit
[AC] vlan 10
[AC-vlan10] quit
[AC] interface Vlan-interface 10
[AC-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
[AC-Vlan-interface10] guit
[AC] vlan 20
[AC-vlan20] guit
[AC] interface Vlan-interface 20
[AC-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
[AC-Vlan-interface20] quit
[AC] interface GigabitEthernet 1/0/1
[AC-GigabitEthernet1/0/1] port link-type trunk
[AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[AC-GigabitEthernet1/0/1] quit
```

 スイッチ上にDHCP IPプールを作成します。スイッチ上にVLAN 10および20を作成します。インター フェイスVLAN10および20を設定し、スイッチ上のGE1/0/1およびGE1/0/2のポート設定を変更しま す。

```
[SW1] dhcp enable
[SW1] dhcp server ip-pool 1
[SW1-dhcp-pool-10] gateway-list 1.1.1.1
[SW1-dhcp-pool-10] network 1.1.1.0 mask 255.255.255.0
[SW1-dhcp-pool-10] quit
[SW1] dhcp server ip-pool 10
```

```
[SW1-dhcp-pool-10] gateway-list 10.1.1.1
    [SW1-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-10] guit
    [SW1] dhcp server ip-pool 20
    [SW1-dhcp-pool-20] gateway-list 20.1.1.1
    [SW1-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-20] quit
    [SW] interface Vlan-interface 1
    [SW-Vlan-interface1] ip address 1.1.1.1 255.255.255.0
    [SW-Vlan-interface1] quit
    [SW] vlan 10
    [SW-vlan10] guit
    [SW] interface Vlan-interface 10
    [SW-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
    [SW-Vlan-interface10] quit
    [SW] vlan 20
    [SW-vlan20] guit
    [SW] interface Vlan-interface 20
    [SW-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
    [SW-Vlan-interface20] quit
    [SW] interface GigabitEthernet 1/0/1
    [SW-GigabitEthernet1/0/1] port link-type trunk
    [SW-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [SW-GigabitEthernet1/0/1] quit
3. 2つのサービステンプレートを作成し、2つのAPをACにバインドします。
    [AC] wlan service-template 1
    [AC-wlan-st-1] ssid l3-roaming
    [AC-wlan-st-1] service-template enable
    [AC-wlan-st-1] quit
    [AC]wlan ap ap1 model WA6320
    [AC-wlan-ap-ap1] serial-id xxxxxxx
    [AC-wlan-ap-ap1] radio 1
    [AC-wlan-ap-ap1-radio-1] radio enable
    [AC-wlan-ap-ap1-radio-1] service-template 1 vlan 10
    [AC-wlan-ap-ap1-radio-1] quit
    [AC-wlan-ap-ap1] quit
```

```
端末はAP1とAP2の間をローミングし、ローミング後に2つのDHCP IPプールから異なるIPアドレスを取得
できます。
```

期待される結果

備考

内部番号

T09

4.

T10ローカルフォワーディング

[AC]wlan ap ap2 model WA6320

[AC-wlan-ap-ap2-radio-1] quit

[AC-wlan-ap-ap2] radio 1

[AC-wlan-ap-ap2] quit

[AC-wlan-ap-ap2] serial-id xxxxxxx

[AC-wlan-ap-ap2-radio-1] radio enable [AC-wlan-ap-ap2-radio-1] service-template 1 vlan 20

端末をAP1のSSIDに接続し、AP2の電波放射範囲に移動します。結果1が予想されます。

目的

```
ローカルフォワーディング
ネットワーク図
```



前提条件

```
テスト手順
             AP設定を編集し、ACにダウンロードします。
         1.
             apcfg.txtの中身 (APの設定):
             system-view
             vlan 200
             quit
              interface GigabitEthernet0/0/1
             port link-type trunk
             port trunk permit vlan 200
             設定をダウンロードしてACでチェックします:
              <AC>dir
             Directory of flash:
                    0 -rw- 75 Aug 25 2023 09:26:05
                                                      apcfg.txt

    VLANおよびVLANインターフェイスを使用してスイッチを設定します。DHCPサーバーおよびプール

             を設定します。
              [SW] vlan 10
              [SW-vlan10]guit
              [SW] interface Vlan-interface 10
              [SW-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
              [SW-Vlan-interface10]quit
              [SW] vlan 200
              [SW-vlan200] guit
              [SW] interface Vlan-interface 200
              [SW-Vlan-interface200] ip address 200.1.1.1 255.255.255.0
              [SW-Vlan-interface200]quit
              [SW] dhcp enable
              [SW] dhcp server ip-pool 10
              [SW-dhcp-pool-10] gateway-list 10.1.1.1
              [SW-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
              [SW-dhcp-pool-10] quit
              [SW] dhcp server ip-pool 200
              [SW-dhcp-pool-200] gateway-list 200.1.1.1
              [SW-dhcp-pool-200] network 200.1.1.0 mask 255.255.255.0
              [SW-dhcp-pool-200] quit
         3.
             トランクモードでスイッチのインターフェイスを設定し、相対VLANを許可します。
              [SW] interface GigabitEthernet 1/0/2
              [SW-GigabitEthernet1/0/2] port link-type trunk
              [SW-GigabitEthernet1/0/2] port trunk permit vlan 10
              [SW-GigabitEthernet1/0/2] port trunk pvid vlan 10
              [SW-GigabitEthernet1/0/2] quit
              [SW] interface GigabitEthernet 1/0/11
              [SW-GigabitEthernet1/0/11] port link-type trunk
              [SW-GigabitEthernet1/0/11] port trunk permit vlan 10 200
              [SW-GigabitEthernet1/0/11] port trunk pvid vlan 10
              [SW-GigabitEthernet1/0/11] quit
         4. VLAN、インターフェイスVLAN、サービステンプレート、およびバインディングAPを使用してACを設
             定します。
              [AC] vlan 10
              [AC-vlan10] quit
              [AC] interface Vlan-interface 10
              [AC-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
              [AC-Vlan-interface10] guit
              [AC] interface GigabitEthernet 1/0/1
              [AC-GigabitEthernet1/0/1] port link-type trunk
              [AC-GigabitEthernet1/0/1] port trunk permit vlan 10
              [AC-GigabitEthernet1/0/1] port trunk pvid vlan 10
              [AC-GigabitEthernet1/0/1] quit
              [AC] wlan service-template 1
              [AC-wlan-st-1] ssid local-fw
              [AC-wlan-st-1] vlan 200
              [AC-wlan-st-1] client forwarding-location ap
              [AC-wlan-st-1] service-template enable
              [AC-wlan-st-1] quit
              [AC] wlan ap ap1 model xxxx
              [AC-wlan-ap-ap1] serial-id xxxxxxx
              [AC-wlan-ap-ap1] map-configuration flash:/apcfg.txt
              [AC-wlan-ap-ap1] radio 1
              [AC-wlan-ap-ap1-radio-1] service-template 1
```

```
[AC-wlan-ap-ap1-radio-1] radio enable
```

SSID 'local-fw'に接続します。結果は1になります。

期待される結果

```
端末はSSIDに正常に接続し、適切なIPアドレスを取得する必要があります。
```

備考

内部番号

T10

5.

T11 PSK暗号化

目的

PSK暗号化 ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

```
スイッチ1のVLAN、インターフェイスVLAN、およびDHCP IPプールを設定します。
1.
    [SW1] vlan 10
    [SW1-vlan10] interface Vlan-interface 10
    [SW1-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
    [SW1-Vlan-interface10]quit
    [SW1] vlan 20
    [SW1-vlan20] interface Vlan-interface 20
    [SW1-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
    [SW1-Vlan-interface20] guit
    [SW1] vlan 30
    [SW1-vlan30] interface Vlan-interface 30
    [SW1-Vlan-interface30] ip address 30.1.1.1 255.255.255.0
    [SW1-Vlan-interface30] quit
    [SW1] dhcp enable
    [SW1] dhcp server ip-pool 10
    [SW1-dhcp-pool-10] gateway-list 10.1.1.1
    [SW1-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-10] quit
    [SW1] dhcp server ip-pool 20
    [SW1-dhcp-pool-20] gateway-list 20.1.1.1
    [SW1-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-20] quit
```

```
[SW1] dhcp server ip-pool 30
    [SW1-dhcp-pool-30] gateway-list 30.1.1.1
    [SW1-dhcp-pool-30] network 30.1.1.0 mask 255.255.255.0
    [SW1-dhcp-pool-30] quit
    トランクおよびアクセスポートを使用して、スイッチ1のインターフェイスGE1/0/1およびGE1/0/2を設
2.
    定します。
    [SW1] interface GigabitEthernet 1/0/1
    [SW1-GigabitEthernet1/0/1] port link-type trunk
    [SW1-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [SW1-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [SW1-GigabitEthernet1/0/1] quit
    [SW1] interface GigabitEthernet 1/0/2
    [SW1-GigabitEthernet1/0/2] port access vlan 30
    [SW1-GigabitEthernet1/0/2] quit
  スイッチ2のポートとVLANを設定します。
3.
    [SW2] vlan 10
    [SW2-vlan10] quit
    [SW2] vlan 20
    [SW2-vlan20] quit
    [SW2] vlan 30
    [SW2-vlan30] quit
    [SW2] interface GigabitEthernet 1/0/1
    [SW2-GigabitEthernet1/0/1] port link-type trunk
[SW2-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [SW2-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [SW2-GigabitEthernet1/0/1] quit
    [SW2] interface GigabitEthernet 1/0/2
    [SW2-GigabitEthernet1/0/2] port link-type trunk
    [SW2-GigabitEthernet1/0/2] undo port trunk permit vlan 1
    [SW2-GigabitEthernet1/0/2] port trunk permit vlan 10 20
    [SW2-GigabitEthernet1/0/2] quit
    [SW2] interface GigabitEthernet 1/0/3
    [SW2-GigabitEthernet1/0/3] port access vlan 20
    [SW2-GigabitEthernet1/0/3] quit
4.
   スイッチ3のポートとVLANを設定します。
    [SW3] vlan 30
    [SW3-vlan30] quit
    [SW3] interface GigabitEthernet 1/0/1
    [SW3-GigabitEthernet1/0/1] port access vlan 30
    [SW3-GigabitEthernet1/0/1] quit
    [SW3] interface GigabitEthernet 1/0/2
    [SW3-GigabitEthernet1/0/2] port access vlan 30
    [SW3-GigabitEthernet1/0/2] quit
   AC に VLAN とインターフェイス VLAN を設定します。 WLAN サービス テンプレートを設定し、AP
5.
    をバインドします。
    [AC] vlan 10
    [AC-vlan10] interface Vlan-interface 10
    [AC-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
    [AC-Vlan-interface10] guit
    [AC] vlan 20
    [AC-vlan20] interface Vlan-interface 20
    [AC-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
    [AC-Vlan-interface20] quit
    [AC] interface GigabitEthernet 1/0/0
    [AC-GigabitEthernet1/0/0] port link-type trunk
    [AC-GigabitEthernet1/0/0] undo port trunk permit vlan 1
    [AC-GigabitEthernet1/0/0] port trunk permit vlan 10 20
    [AC-GigabitEthernet1/0/0] quit
    [AC] wlan service-template 1
    [AC-wlan-st-1] ssid l2-regist
    [AC-wlan-st-1] vlan 10
    [AC-wlan-st-1] akm mode psk
    [AC-wlan-st-1] preshared-key pass-phrase simple 12345678
    [AC-wlan-st-1] cipher-suite ccmp
    [AC-wlan-st-1] security-ie rsn
    [AC-wlan-st-1] service-template enable
    [AC-wlan-st-1] quit
    [AC]wlan ap ap1 model WA6320
    [AC-wlan-ap-ap1] serial-id xxxxxxx
    [AC-wlan-ap-ap1] radio 1
```

```
[AC-wlan-ap-ap1-radio-1] radio enable
[AC-wlan-ap-ap1-radio-1] service-template 1
[AC-wlan-ap-ap1-radio-1] quit
[AC-wlan-ap-ap1] quit
```

- 6. クライアントからSSIDに接続し、パスワードを入力します。結果1が予期されます。
- 7. クライアントとホストがIPアドレスを取得し、相互にpingを実行できるかどうかを確認します。結果1が 予想されます。

期待される結果

- 1. クライアントはSSIDに正常に接続できます。
- 2. クライアントとホストの両方がDHCP IPプールからIPアドレスを取得できます。クライアントとホストは 相互にpingを実行できます。

備考

内部番号

T11

T12リモート-AP

目的

リモート-AP ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

```
AP設定を編集し、ACにダウンロードします。
1.
    apcfg.txtの中身 (APの設定):
    system-view
    vlan 200
    quit
    interface GigabitEthernet0/0/1
    port link-type trunk
    port trunk permit vlan 200
    設定をダウンロードしてACでチェックします:
    <AC>dir
    Directory of flash:
                       75 Aug 25 2023 09:26:05
       0 - rw -
                                                 apcfg.txt
2.
    VLANおよびVLANインターフェイスを使用してスイッチを設定します。DHCPサーバーおよびプール
    を設定します。
    [SW] vlan 10
    [SW-vlan10] quit
    [SW] interface Vlan-interface 10
    [SW-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
    [SW-Vlan-interface10] quit
    [SW] vlan 200
    [SW-vlan200] quit
    [SW] interface Vlan-interface 200
    [SW-Vlan-interface200] ip address 200.1.1.1 255.255.255.0
    [SW-Vlan-interface200] quit
    [SW] dhcp enable
    [SW] dhcp server ip-pool 10
    [SW-dhcp-pool-10] gateway-list 10.1.1.1
[SW-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
```

```
[SW-dhcp-pool-10] quit
    [SW] dhcp server ip-pool 200
    [SW-dhcp-pool-200] gateway-list 200.1.1.1
[SW-dhcp-pool-200] network 200.1.1.0 mask 255.255.255.0
    [SW-dhcp-pool-200] quit
   トランクモードでスイッチのインターフェイスを設定し、相対VLANを許可します。
3.
    [SW] interface GigabitEthernet 1/0/2
    [SW-GigabitEthernet1/0/2] port link-type trunk
     [SW-GigabitEthernet1/0/2] port trunk permit vlan 10 200
    [SW-GigabitEthernet1/0/2] quit
    [SW] interface GigabitEthernet 1/0/11
    [SW-GigabitEthernet1/0/11] port link-type trunk
[SW-GigabitEthernet1/0/11] port trunk permit vlan 10 200
    [SW-GigabitEthernet1/0/11] port trunk pvid vlan 10
    [SW-GigabitEthernet1/0/11] quit
4. VLAN、インターフェイスVLAN、サービステンプレート、およびバインディングAPを使用してACを設
    定します。
    [AC] vlan 10
    [AC-vlan10] quit
    [AC] interface Vlan-interface 10
    [AC-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
    [AC] vlan 200
    [AC-vlan200] quit
     [AC] interface Vlan-interface 200
    [AC-Vlan-interface200] ip address 200.1.1.2 255.255.255.0
    [AC-Vlan-interface200] quit
    [AC] interface GigabitEthernet 1/0/1
    [AC-GigabitEthernet1/0/1] port link-type trunk
    [AC-GigabitEthernet1/0/1] port trunk permit vlan 10 200
    [AC-GigabitEthernet1/0/1] quit
     [AC] wlan service-template 1
    [AC-wlan-st-1] ssid remote-ap
    [AC-wlan-st-1] client forwarding-location ap vlan 200
     [AC-wlan-st-1] service-template enable
    [AC-wlan-st-1] quit
    [AC] wlan ap ap1 model xxxx
    [AC-wlan-ap-ap1] serial-id xxxxxxx
    [AC-wlan-ap-ap1] map-configuration flash:/apcfg.txt
    [AC-wlan-ap-ap1] radio 1
    [AC-wlan-ap-ap1-radio-1] service-template 1 vlan 200
     [AC-wlan-ap-ap1-radio-1] radio enable
    [AC-wlan-ap-ap1-radio-1] quit
    [AC-wlan-ap-ap1] hybrid-remote-ap enable
    2 台の端末から SSID' remote-ap' に接続すると、結果 1 が期待されます。
```

期待される結果

端末はSSIDに正常に接続し、適切なIPアドレスを取得する必要があります。端末は互いにpingを実行できます。

備考

内部番号

T12

T13不正AP

目的

不正AP ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

1. ACでVLAN 10、VLAN 20、およびインターフェイスVLAN 10、20を設定します。ACのポート GE1/0/1をトランクポートに変更します。

```
[AC] vlan 10
[AC-vlan10] quit
[AC] interface Vlan-interface 10
[AC-vlan-interface10] ip address 10.1.1.2 255.255.255.0
[AC-vlan-interface10] quit
[AC] vlan 20
[AC-vlan20] quit
[AC] interface Vlan-interface 20
[AC-vlan-interface20] ip address 20.1.1.2 255.255.255.0
[AC-vlan-interface20] quit
[AC] interface GigabitEthernet 1/0/1
[AC-GigabitEthernet1/0/1] port link-type trunk
[AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[AC-GigabitEthernet1/0/1] quit
```

 スイッチ上にDHCP IPプールを作成します。スイッチ上にVLAN 10および20を作成します。インター フェイスVLAN10および20を設定します。スイッチ上のGE1/0/1およびGE1/0/2のポート構成を変更

します。

```
[SW] dhcp enable
[SW] dhcp server ip-pool 10
[SW-dhcp-pool-10] gateway-list 10.1.1.1
[SW-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
[SW-dhcp-pool-10] quit
[SW] dhcp server ip-pool 20
[SW-dhcp-pool-20] gateway-list 20.1.1.1
[SW-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
[SW-dhcp-pool-20] quit
[SW] vlan 10
[SW-vlan10] quit
[SW] interface Vlan-interface 10
[SW-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
[SW-Vlan-interface10] guit
[SW] vlan 20
[SW-vlan20] guit
[SW] interface Vlan-interface 20
[SW-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
[SW-Vlan-interface20] quit
[SW] interface GigabitEthernet 1/0/1
[SW-GigabitEthernet1/0/1] port link-type trunk
[SW-GigabitEthernet1/0/1] undo port trunk permit vlan 1
[SW-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[SW-GigabitEthernet1/0/1] quit
```

3. ACでWIPSを設定して、不正AP対策機能をイネーブルにします。

```
[AC] wips
[AC-wips] countermeasure policy 1
[AC-wips-cms-1] countermeasure rogue-ap
[AC-wips-cms-1] quit
[AC-wips] virtual-security-domain 1
[AC-wips-vsd-1] apply countermeasure policy 1
[AC-wips-vsd-1] quit
[AC-wips] quit
```

4. サービステンプレートを作成し、AC上のAPにバインドします。AP上の不正AP対策ポリシーをバイン ドします。

```
[AC] wlan service-template 1
[AC-wlan-st-1] ssid H3C
[AC-wlan-st-1] vlan 20
[AC-wlan-st-1] service-template enable
[AC-wlan-st-1] quit
[AC]wlan ap ap1 model WA6320
[AC-wlan-ap-ap1] serial-id xxxxxxxx
[AC-wlan-ap-ap1] wips virtual-security-domain 1
[AC-wlan-ap-ap1] radio 1
[AC-wlan-ap-ap1-radio-1] radio enable
[AC-wlan-ap-ap1-radio-1] wips enable
```

```
[AC-wlan-ap-ap1-radio-1] service-template 1
[AC-wlan-ap-ap1-radio-1] quit
[AC-wlan-ap-ap1] quit
```

- 5. Rogue-APは同じSSID(この例ではH3C)を使用し、無線を有効にします。結果1が予想されます。 [AC] display wips virtual-security-domain 1 countermeasure record
- [AC] display wips virtual-security-domain 1 countermeasure rec / 分十日

期待される結果

WIPSは不正なAPに対して対策を講じており、クライアントは不正なAPを介してオンラインになることはできません。

備考

内部番号

T13

T14ユーザー分離

目的

ユーザーの隔離

ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

```
1.
   AC上でVLAN 10および20とインターフェイスVLAN 10および20を設定し、ACのポートGE1/0/1をト
    ランクポートに変更します。
     [AC] vlan 10
    [AC-vlan10] quit
     [AC] interface Vlan-interface 10
     [AC-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
     [AC-Vlan-interface10] quit
     [AC] vlan 20
     [AC-vlan20] quit
     [AC] interface Vlan-interface 20
    [AC-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
     [AC-Vlan-interface20] quit
     [AC] interface GigabitEthernet 1/0/1
     [AC-GigabitEthernet1/0/1] port link-type trunk
    [AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
     [AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [AC-GigabitEthernet1/0/1] quit
    スイッチ上にDHCP IPプールを作成します。スイッチ上にVLAN 10および20を作成します。インター
2.
    フェイスVLANを設定します。
     [SW1] dhcp enable
     [SW1] dhcp server ip-pool 10
     [SW1-dhcp-pool-10] gateway-list 10.1.1.1
     [SW1-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
     [SW1-dhcp-pool-10] quit
     [SW1] dhcp server ip-pool 20
    [SW1-dhcp-pool-20] gateway-list 20.1.1.1
     [SW1-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
     [SW1-dhcp-pool-20] quit
```

[SW] vlan 10 [SW-vlan10] quit [SW] interface Vlan-interface 10 [SW-Vlan-interface10] ip address 10.1.1.1 255.255.255.0

```
[SW-Vlan-interface10] quit
     [SW] vlan 20
     [SW-vlan20] quit
     [SW] interface Vlan-interface 20
     [SW-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
     [SW-Vlan-interface20] quit
     [SW] interface GigabitEthernet 1/0/1
     [SW-GigabitEthernet1/0/1] port link-type trunk
     [SW-GigabitEthernet1/0/1] undo port trunk permit vlan 1
     [SW-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[SW-GigabitEthernet1/0/1] quit
     [SW] interface GigabitEthernet 1/0/2
     [SW-GigabitEthernet1/0/2] port access vlan 10
     [SW-GigabitEthernet1/0/2] quit
3.
    サービステンプレートを作成し、APをACにバインドします。
     [AC] wlan service-template 1
     [AC-wlan-st-1] ssid user-isolation
     [AC-wlan-st-1] vlan 10
     [AC-wlan-st-1] user-isolation enable
     [AC-wlan-st-1] service-template enable
     [AC-wlan-st-1] guit
     [AC]wlan ap ap1 model WA6320
     [AC-wlan-ap-ap1] serial-id xxxxxxx
     [AC-wlan-ap-ap1] radio 1
     [AC-wlan-ap-ap1-radio-1] radio enable
     [AC-wlan-ap-ap1-radio-1] service-template 1
     [AC-wlan-ap-ap1-radio-1] quit
     [AC-wlan-ap-ap1] quit
4.
    2台の端末をSSIDに接続し、相互にpingを実行してみます。結果は1になります。
```

```
期待される結果
```

2つの端末が相互にpingできません。

備考

- 内部番号
 - T14

T15 802.1x認証

```
目的
802.1x認証
ネットワーク図
```



前提条件

AC、スイッチ、AP、およびiMCサーバーは、上記のネットワークダイアグラムに従って接続されます。 テスト手順

> ACでVLAN 10、VLAN 20、およびインターフェイスVLAN 10、20を設定します。ACのポート GE1/0/1をトランクポートに変更します。
> [AC] vlan 10
> [AC-vlan10] quit
> [AC] interface Vlan-interface 10

```
[AC-Vlan-interface10] ip address 10.1.1.2 255.255.0
[AC-Vlan-interface10] quit
[AC] vlan 20
[AC-vlan20] quit
[AC] interface Vlan-interface 20
[AC-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
[AC-Vlan-interface20] quit
[AC] interface GigabitEthernet 1/0/1
[AC-GigabitEthernet1/0/1] port link-type trunk
[AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
[AC-GigabitEthernet1/0/1] quit
```

2. スイッチ上にDHCP IPプールを作成します。スイッチ上にVLAN 10および20を作成します。インター フェイスVLAN 10および20を設定します。スイッチ上のGE1/0/1およびGE1/0/2のポート設定を変更 」ます

```
します。
    [SW] dhcp enable
    [SW] dhcp server ip-pool 10
    [SW-dhcp-pool-10] gateway-list 10.1.1.1
    [SW-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
     [SW-dhcp-pool-10] quit
    [SW] dhcp server ip-pool 20
    [SW-dhcp-pool-20] gateway-list 20.1.1.1
     [SW-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
     [SW-dhcp-pool-20] quit
    [SW] vlan 10
    [SW-vlan10] quit
     [SW] interface Vlan-interface 10
    [SW-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
    [SW-Vlan-interface10] quit
    [SW] vlan 20
     [SW-vlan20] quit
    [SW] interface Vlan-interface 20
    [SW-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
     [SW-Vlan-interface20] quit
    [SW] interface GigabitEthernet 1/0/1
    [SW-GigabitEthernet1/0/1] port link-type trunk
    [SW-GigabitEthernet1/0/1] undo port trunk permit vlan 1
[SW-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [SW-GigabitEthernet1/0/1] guit
    [SW] interface GigabitEthernet 1/0/2
     [SW-GigabitEthernet1/0/2] port access vlan 10
    [SW-GigabitEthernet1/0/2] quit
3.
    AC上にRADIUSスキームrs1を作成します。この例では、RADIUSサーバーのIPアドレスは
    192.168.207.116、ACの IPアドレスは10.1.1.2/24:
    [AC] radius scheme rs1
    [AC-radius-rs1] primary authentication 192.168.207.116
    [AC-radius-rs1] primary accounting 192.168.207.116
    [AC-radius-rs1] key authentication simple radius
     [AC-radius-rs1] key accounting simple radius
    [AC-radius-rs1] user-name-format without-domain
    [AC-radius-rs1] nas-ip 10.1.1.2
```

RADIUSスキームを使用するように、ISPドメインでACを設定します。 [AC] domain dm1 [AC-isp-dm1] authentication lan-access radius-scheme rs1

```
[AC-isp-dml] authorization lan-access radius-scheme rs1
[AC-isp-dml] accounting lan-access radius-scheme rs1
[AC-isp-dml] quit
```

5. 802.1x認証機能を持つサービステンプレートを作成し、AC上のAPにバインドします。

```
[AC] dot1x authentication-method eap
[AC] wlan service-template 1
[AC-wlan-st-1] akm mode dot1x
[AC-wlan-st-1] cipher-suite ccmp
[AC-wlan-st-1] security-ie rsn
[AC-wlan-st-1] client-security authentication-mode dot1x
[AC-wlan-st-1] dot1x domain dm1
[AC]wlan ap ap1 model WA6320
[AC-wlan-ap-ap1] serial-id xxxxxxxx
[AC-wlan-ap-ap1] radio 1
[AC-wlan-ap-ap1-radio-1] radio enable
[AC-wlan-ap-ap1-radio-1] service-template 1
```

[AC-wlan-ap-ap1-radio-1] quit [AC-wlan-ap-ap1] quit

6. IMCにログインし、Userタブをクリックし、ナビゲーションツリーからUser Access Policy > Access Device Management > Access Deviceを選択します。次に、Addをクリックして、アクセスデバイス を次のように設定します。



セキュアRADIUS通信の共有キーをradiusに設定します。認証とアカウンティングのポートをそれぞれ1812と1813に設定します。Access Device TypeリストからSTANDARD(standard)を選択します。

HBC Intelligent Monagement Center	Home Resource	Liser Service Alarm	Report System		- Gargonica	Q = ★ 🖪 (🧉 admin 🗸
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User Access Policy 😑							
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	Access Device Type	STANDARD (Slandard)		Service Group	Ungrouped		
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Access Device Management							
	Select Add Menusity	Clear All					
EB Third Party Authentication	Device Name		Device Model			Delete	
E Land late	No match found.						
	Total Nems: 0		_				
				the second s			-
💕 Page Push Policy				Cancel			
O WeChat Authentication							1.
Concernation Concernation						1	Carlo I.
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Add manuallyをクリックして、アクセスデバイスを追加します。この例では、デバイスのIPアドレス 10.1.1.2を入力し、このデバイスの名前を指定して、OKをクリックします。このデバイスは自動的に デバイスリストに表示されます。もう一度OKをクリックし、backをクリックしてデバイスリストにアクセ スします。このデバイスはアクセスデバイスリストに表示されます。

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ser Access Log 💿 📀	Access Configuration					Desireduce
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	Access Device Type	STANDARD (Sta	cess Device Manually		norsuped	
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7. アクセスポリシーの追加:Userタブをクリックし、ナビゲーションツリーからUser Access Policy > Access Policyを選択します。次に、Addをクリックして、次のようにアクセスポリシーを構成します。

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この例では、Access Policy Name RadiusPolicyと入力します。他のパラメータのデフォルト値を使用し、ページを下にスクロールしてOKをクリックします。追加されたポリシーがポリシーリストに表示されます。

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アクセスサービスの追加:Userタブをクリックし、ナビゲーションツリーからUser Access
 Policy→Access Serviceを選択します。次に、Addをクリックして、アクセスサービスを次のように構成します。

HBC Intelligent Management Center	Home Resource	User Service	Alsem	Report System		Query Devices	Q x 🖈	📕 🕘 admin 🕳
User Endpoint O	B2 User > User Access Policy > A	Add User					Add to	My favorites @Lielo
User Access Log 🕘		Additional Information					1 07150 10	ing roronics (gricip
User Access Policy 😑	Query Access Policies	Batch User Operators Import Users						_
92 Quick Start	Access Policy Name	Access User Fracst		Service Group			l	Query Reset
	AB	User Access Log User Access Policy		SSID Assess Control 20 Mart Dick Quick Stat	Social Number GuAccess	MAC Address IgEndpoint Mo	therboard Serial Nur	nber Pool @Access ACL
	Access Policy Name	Liser Security Policy		Access Policy		Service Group	Madify	Delete
U. Access Poiky	dottx.policy	Desktop Asset Manager		Access Condition	1	Unorsuped	R	
		Denice User Policy		LDAP Service				
				Portal Service Third-Party Authonitication	b	Ungrouped	B	
				Export Task Contraining Terminal Pages				-
	portal			Page Push Policy	10.	Ungrouped	R	
10 Third-Party Authonitication				WiChat Authentication Lling latic Authentication			3	
E Const Tark				Service Parameters			-	
	RadiusPolicy					Ungrouped	B	-
Bustomize Terminal Pages								
12 Page Push Policy	1-8 of 8 Page 1 of 1							4 50 -
O WeChat Authentication								
Ch Dibnlaik & divebration								1 .
102 108 207 116 stratedow Austindow later 1	A0 /A0			Copyright 2007-2021 New H3C Te	chinologies Co., Ltd. All rights	reserved Company Name China	10. C	

サービス名RadiusServiceを入力します。デフォルトのアクセスポリシーを、前のステップで追加した ばかりのRadiusPolicyに変更します。他のパラメータのデフォルト値を使用して、OKをクリックしま す。

HBC Intelligent Management Center	Hame Resource User	Service Alarm Re	part System	S.	Conytheness Q	★ 📕 🍙 admin 🗸
User Endpoint O	2 User > User Access Policy > Access Service >	Add Access Service				Энфр
User Access Log 📀	Basic Information					-
User Access Policy 😑						
Pt Over Start	Servce Name *	RadusService		Service Sulfix		
T constraint	Service Group *	Ungrouped		Default Access Policy 7	KadusPoky	Add
(2) Access Service	Default Security Policy *	Do not use		Default Internet Access Policy *	Do not use	
💱 Access Policy	Default Proprietary Attribute Assignment Policy 1	Do notuse				
	Default Max. Devices for Single Account *			Default Max. Number of Online Lindpoints		
	Daily Max. Online Duration *					
	Description					
	Zevalable (1)			Transparent Authentication (?)		
83 Third-Party Authentication	Access Scenarto List					
🛃 Caport Task	Add					
	Access Scenario Access Policy	Security Policy	Proprietary Attribute	Assignment Policy Internet Access (Configuration Priority	Modify Delete
Page Push Policy	No match tound.					
S Weicher Authentication			OK	Cancel		
A Directede Authantie-stree						10
🖬 💰 🙀 🗛 🖬	<u>Δ</u> 0 <u>Δ</u> 0	e	Copyright 2007-2021 New	H3C Technologies Co., Ltd. All rights reserved.C	Company Name China	0

9. デバイス管理のアクセスユーザーの追加:ナビゲーションツリーからAccess User View > All Access Usersを選択します。次に、Addをクリックして、デバイス管理アカウントを次のように構成します。



デバイス管理のアクセスユーザーの追加:ナビゲーションツリーからAccess User View > All Access Usersを選択します。次に、Addをクリックして、デバイス管理アカウントを次のように構成します。

HBC Intelligent Management Center		Home	Resource	User Service	Alarm P	Gepunt System		(** *0.00	Drivities C	8 × 🛪 🖪	🔺 ninte 🍝
		街 User > All Access	s Users							Add to My Fav	antes (2) Help
UDAP User										Adv	anced Query
Mute Terminal User Contig Profile		Account Name									
Penegistered User					44 D	Service Name				Query	Reset
		Act Patch Import	Modily Account A	ld to Donytist - Gamosi Apr	ount Apply for So	nike Canod Senike 💌 More			User Profiles 👪	Jser Group 🔟 Additio	nal Information
Access Topology		Acco	unt Name 🙁	Uxer Name		User Group	Creation Date *	Start Time	End Time	Account Status	Modify
🖳 Batch Operations		🔲 de		- cient1		Ungrouped	2023-03-29				
		13									
Gred 6		🔲 as								Normai	
User Endpoint	•	i det									
User Access Log	Ð										
User Access Policy	Ð	10									
P Address Management	Ð	clo		dient		Ungrouped					
Jser Security Policy	•	🔲 MI									
Desktop Asset Manager	Ð	- a	0805711ea	Phone2		Ungrauped				Normal	
Device User	Ð										
Device User Policy	Ð					Deservation					Ð
										1	
a 🔹 🗰 🗛 🕯	40					6 Copyright 2007 2021 New LIDC T	echnologies Co., Ltd. All rights	reserved Company	y Name China		

アカウント名'client1'を入力し、アクセス情報からパスワード'radius'を指定します。最大同時ログイン 数リストから10を指定します。アクセスサービスのRadiusServiceを選択します。OKをクリックします。

		Home Resource Us	or Savice Alam	Report System	- Chief	annes 🔍 e 🎓	📕 🍐 admin 🗸
		🖳 User > All Access Users > Add Access U	lser				(2)Help
EDAP User		Basic Information					=
🐮 Mute Terminal User Contig Profile		User Name *	cient1	٥	Klenitly Number * 123		
🕎 Preregistered User		Contact Address			lelephone		
		Email			User Group *	aped in the d	6
Access Topology		Access Information					-
🚉 Balch Operations		Account Name *	client				
		Trial Account	Default BYOD User	MAC Authentication User	Computer User		
Guest	•	Password *			Confirm Password *		
User Endpoint	•	Mow User to Change Password		Enable Password Strateg	y Modify Passar	rd at Next Login	
User Access Log	•	Start Line					
User Access Policy	•	Max, Idle Time (Minutes)			Max Concurrent Logins		
IP Address Management	•						
User Security Policy	0	Login Message					
Desktop Asset Manager	•	Assessed Constitute					
Device User	•						
Device User Policy	•	Service Name		Service Suffix	Default Security Policy	Status	Allocate IP
		Home Resource US	er Service Alarm	Report System		(Bolos 🔍 s ★	📕 · 🦲 admin -
		Home Resource Us Login Mossage	ier Service Alarm	i Raport System		(Bedina 🔍 v ★	📕 🌔 admin 🗸
El LONP User		Home Resource Uk Lagin Massaga Access Service	er Service Alam	Report System	.	i Realizas 🔍 🥹 ★	
Bit LDWP User		Home Resource 18 Legis Message Access Service Tantice Name	et Service Alarm	Report System	Datas Second Pairs	r Tantos Q y 🛧	Allocate IP
LDVP User Main Terminal User Conty Prote Prote Processored User		Home Resource Us Lingin Monaugu Access Service Service Nume	et Service Alarm	Report System	Default Security Palloy Do not use	(Tinton Q 3 🛠 🗙	Allocate IP
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EAP User Main Terminal User Fondly Printe Main Terminal User More User Access Topology Round Topology Rubit Operations Topolog Report Guidet	** *** ***	Hone Resource (3) Figin Mineage Access Service Service Name - orts-Service - mays wroke - mays wroke - post - post - post - mays wroke - mays wro	45 543442 Akm	Repot System	Dental Security Paley Dont are Dont are Dont are Dont are Dont are Dont are Dont are Dont are Dont are	Padeos Q a *	Anseque IP
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But on the series But of the series	xxx xx	Hone Resource () Figin Minisign Access Service Service Name - orsis-Service - maysk-serke - maysk-serke - orsis-Service - orsis-Servic		Report System	Perhait Security Pater De hait as De hait as	Poeters Q o *	Anecata IP
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10. iNodeを使用して802.1x認証でアクセスします。パスワードとして「client1」と「radius」を使用してユ ーザー名を入力し、connectをクリックします。結果1が予期されます。ACでは、802.1x接続ユーザ ー情報が表示され、結果2が予期されます。 [AC] display dot1x connection

期待される結果

- 1. アカウントへのアクセスに成功し、接続が確立されます。
- 2. ユーザー名とMACアドレスが表示され、ユーザーのアクセス状態は正常です。

備考

内部番号

T15

T16ローカルMAC認証

目的

ローカルMAC認証 ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

```
ACおよびスイッチのVLANおよびインターフェイスVLANを設定します。
1.
     [DUT-AC] vlan 10
     [DUT-AC-vlan10] quit
     [DUT-AC] interface Vlan-interface 10
     [DUT-AC-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
    [DUT-AC-Vlan-interface10] quit
    [DUT-AC] vlan 20
    [DUT-AC-vlan20] quit
    [DUT-AC] interface Vlan-interface 20
    [DUT-AC-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
    [DUT-AC-Vlan-interface20] quit
    [DUT-SW] vlan 10
    [DUT-SW-vlan10] quit
    [DUT-SW] interface Vlan-interface 10
    [DUT-SW-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface10] quit
    [DUT-SW] vlan 20
    [DUT-SW-vlan20] guit
    [DUT-SW] interface Vlan-interface 20
    [DUT-SW-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface20] quit
   VLAN と相対ポートを一致させるように AC とスイッチを構成する。
2.
    [DUT-AC] interface GigabitEthernet 1/0/1
    [DUT-AC-GigabitEthernet1/0/1] port link-type trunk
    [DUT-AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [DUT-AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [DUT-AC-GigabitEthernet1/0/1] quit
    [DUT-SW] interface GigabitEthernet 1/0/2
    [DUT-SW-GigabitEthernet1/0/2] port link-type trunk
    [DUT-SW-GigabitEthernet1/0/2] port trunk permit vlan 1 10 20
    [DUT-SW-GigabitEthernet1/0/2] quit
    [SW] interface GigabitEthernet 1/0/11
    [SW-GigabitEthernet1/0/11] port access vlan 10
    [SW-GigabitEthernet1/0/11] quit

    AP およびターミナル クライアント用の DHCP サーバー プールを使用して AC を設定する。

    [DUT-AC] dhcp enable
    [DUT-AC] dhcp server ip-pool 10
    [DUT-AC-dhcp-pool-10] gateway-list 10.1.1.1
    [DUT-AC-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
    [DUT-AC-dhcp-pool-10] quit
    [DUT-AC] dhcp server ip-pool 20
    [DUT-AC-dhcp-pool-20] gateway-list 20.1.1.1
    [DUT-AC-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
    [DUT-AC-dhcp-pool-20] quit
4.
  MAC 認証用の認証ドメインとサービス テンプレートを使用して AC を設定する。
     [DUT-AC] domain local-mac
     [DUT-AC-isp-local-mac] authorization-attribute idle-cut 15 1024
     [DUT-AC-isp-local-mac] authentication lan-access local
     [DUT-AC-isp-local-mac] authorization lan-access none
     [DUT-AC-isp-local-mac] accounting lan-access none
     [DUT-AC-isp-local-mac] quit
     [DUT-AC] wlan service-template MAC-auth
     [DUT-AC-wlan-st-mac-auth] ssid MAC-auth-test
     [DUT-AC-wlan-st-mac-auth] vlan 20
     [DUT-AC-wlan-st-mac-auth] client-security authentication-mode mac
     [DUT-AC-wlan-st-mac-auth] mac-authentication domain local-mac
    [DUT-AC-wlan-st-mac-auth] service-template enable
5. 正しいシリアル番号を使用して AC の AP を設定し、設定されたサービス テンプレートをバインドし
    ます。
```

[DUT-AC] wlan ap AP2 model WA6330 [DUT-AC-wlan-ap-AP2] serial-id 219801A23V8219E00B3F [DUT-AC-wlan-ap-AP2] radio 1 [DUT-AC-wlan-ap-AP2-radio-1] radio enable [DUT-AC-wlan-ap-AP2-radio-1] service-template mac-auth

6. System viewで、正しいシリアル番号を使用して AC の AP を設定し、設定されたサービス テンプレートをバインドします。

[DUT-AC] local-user b2dd43e30b7a class network [DUT-AC-luser-network-b2dd43e30b7a] password simple b2dd43e30b7a [DUT-AC-luser-network-b2dd43e30b7a] service-type lan-access

- 7. すべての WLAN AP を AC で表示します。結果 1 が予想されます。 [DUT-AC] display wlan ap all
- 8. 同じMACアドレスの端末にSSIDを接続、結果2が期待されます。

期待される結果

- 1. AP2は正常にオンラインになるはずです。
- 2. 関連する端末はSSIDに正常に接続する必要があり、ACは端末の接続成功ログを出力します。

備考

内部番号

T16

T17ローカルポータル認証

目的

ローカルポータル認証

ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

```
テスト手順
```

1.

```
ACおよびスイッチのVLANおよびインターフェイスVLANを設定します。
[DUT-AC] vlan 10
[DUT-AC-vlan10] quit
[DUT-AC] interface Vlan-interface 10
[DUT-AC-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
[DUT-AC-Vlan-interface10] quit
[DUT-AC] vlan 20
[DUT-AC-vlan20] quit
[DUT-AC] interface Vlan-interface 20
[DUT-AC-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
[DUT-AC-Vlan-interface20] quit
[DUT-SW] vlan 10
[DUT-SW-vlan10] quit
[DUT-SW] interface Vlan-interface 10
[DUT-SW-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
[DUT-SW-Vlan-interface10] quit
[DUT-SW] vlan 20
[DUT-SW-vlan20] guit
[DUT-SW] interface Vlan-interface 20
[DUT-SW-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
[DUT-SW-Vlan-interface20] quit
```

```
    VLANと相対ポートを一致させるようにACおよびスイッチを設定します。

              [DUT-AC] interface GigabitEthernet 1/0/1
              [DUT-AC-GigabitEthernet1/0/1] port link-type trunk
              [DUT-AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
              [DUT-AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
[DUT-AC-GigabitEthernet1/0/1] quit
              [DUT-SW] interface GigabitEthernet 1/0/2
              [DUT-SW-GigabitEthernet1/0/2] port link-type trunk
              [DUT-SW-GigabitEthernet1/0/2] port trunk permit vlan 1 10 20
              [DUT-SW-GigabitEthernet1/0/2] quit
              [SW] interface GigabitEthernet 1/0/11
              [SW-GigabitEthernet1/0/11] port access vlan 10
[SW-GigabitEthernet1/0/11] quit
              APおよび端末クライアントのDHCPサーバープールを使用してACを設定します。
         3.
              [DUT-AC] dhcp enable
              [DUT-AC] dhcp server ip-pool 10
              [DUT-AC-dhcp-pool-10] gateway-list 10.1.1.1
              [DUT-AC-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
              [DUT-AC-dhcp-pool-10] quit
              [DUT-AC] dhcp server ip-pool 20
              [DUT-AC-dhcp-pool-20] gateway-list 20.1.1.1
[DUT-AC-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
              [DUT-AC-dhcp-pool-20] guit
         4. 認証ドメイン、ポータルWebサーバー、ローカルWebサーバー、およびサービスを使用したACの設
              定を設定します。(defaultfile.zipがフラッシュのディレクトリの下にあることを確認し、user viewで
              「dir」と入力してファイルを確認します)。
              [DUT-AC] domain local-domain-ac
              [DUT-AC-isp-local-domain-ac] authentication portal local
              [DUT-AC-isp-local-domain-ac] authorization portal local
              [DUT-AC-isp-local-domain-ac] accounting portal local
              [DUT-AC-isp-local-domain-ac] guit
              [DUT-AC] portal web-server web-ac
              [DUT-AC-portal-websvr-web-ac] url http://10.1.1.1:8080/portal
              [DUT-AC-portal-websvr-web-ac] quit
              [DUT-AC] portal local-web-server http
              [DUT-AC-portal-local-websvr-http] default-logon-page defaultfile.zip
              [DUT-AC-portal-local-websvr-http] tcp-port 8080
              [DUT-AC] wlan service-template localportal-ac
              [DUT-AC-wlan-st-localportal-ac] wlan service-template localportal-ac
              [DUT-AC-wlan-st-localportal-ac] ssid localportal-ac
              [DUT-AC-wlan-st-localportal-ac] vlan 20
              [DUT-AC-wlan-st-localportal-ac] portal enable method direct
[DUT-AC-wlan-st-localportal-ac] portal domain local-domain-ac
              [DUT-AC-wlan-st-localportal-ac] portal apply web-server web-ac
              [DUT-AC-wlan-st-localportal-ac] service-template enable
              正しいシリアル番号を使用してACでAPを設定し、設定されたサービステンプレートをバインドします。
         5.
              [DUT-AC] wlan ap AP2 model WA6330
              [DUT-AC-wlan-ap-AP2] serial-id 219801A23V8219E00B3F
              [DUT-AC-wlan-ap-AP2] radio 1
              [DUT-AC-wlan-ap-AP2-radio-1] radio enable
              [DUT-AC-wlan-ap-AP2-radio-1] service-template localportal-ac

    ポータルログイン情報のローカルポータルユーザーを設定します。

              [DUT-AC] local-user portal class network
              [DUT-AC-luser-network-portal] password simple 1234567
              [DUT-AC-luser-network-portal] service-type portal

    wlan ap allをACで表示します。結果1が予期されます。

              [DUT-AC] display wlan ap all
              SSIDに接続し、ポータルユーザーカウント情報を入力します。結果2が予想されます。
         8.
期待される結果
         1. AP2は正常にオンラインになるはずです。
         2. SSIDを接続し、ポータルユーザー名とパスワードを入力すると、ログインに成功します。ACでポータ
              ルユーザーをすべて表示すると、ポータルユーザー情報が表示されます。
              [DUT-AC] dis portal user all
              Total portal users: 1
              Username: portal
```

```
AP name: ap2
```

```
Radio ID: 1
```

```
SSID: localportal-AC
Portal server: N/A
State: Online
VPN instance: N/A
MAC
                   ΙP
                                VLAN
                                       Interface
6ed9-6318-755b
                   20.1.1.5
                                10
                                       WLAN-BSS1/0/18
Authorization information:
  DHCP IP pool: N/A
  User profile: N/A
  Session group profile: N/A
  ACL number: N/A
  Inbound CAR: N/A
  Outbound CAR: N/A
  Web URL: N/A
```

備考

内部番号

T17

T18リモートMAC認証

目的

リモートMAC認証 ネットワーク図



[DUT-SW-vlan10] quit

前提条件

AC、スイッチ、iMCサーバー、およびAPは、上記のネットワークダイアグラムに従って接続されています。

テスト手順

```
ACおよびスイッチのVLANおよびインターフェイスVLANを設定します。
[DUT-AC] vlan 10
[DUT-AC-vlan10] quit
[DUT-AC] interface Vlan-interface 10
[DUT-AC-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
[DUT-AC-Vlan-interface10] quit
[DUT-AC] vlan 20
[DUT-AC-vlan20] quit
[DUT-AC] interface Vlan-interface 20
[DUT-AC-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
[DUT-AC-Vlan-interface20] quit
[DUT-AC-Vlan-interface20] quit
[DUT-SW] vlan 10
```

```
[DUT-SW] interface Vlan-interface 10
    [DUT-SW-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface10] guit
    [DUT-SW] vlan 20
    [DUT-SW-vlan20] guit
    [DUT-SW] interface Vlan-interface 20
    [DUT-SW-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface20] guit

    VLANと相対ポートを一致させるようにACおよびスイッチを設定します。

    [DUT-AC] interface GigabitEthernet 1/0/1
    [DUT-AC-GigabitEthernet1/0/1] port link-type trunk
    [DUT-AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [DUT-AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [DUT-AC-GigabitEthernet1/0/1] quit
    [DUT-SW] interface GigabitEthernet 1/0/2
    [DUT-SW-GigabitEthernet1/0/2] port link-type trunk
    [DUT-SW-GigabitEthernet1/0/2] port trunk permit vlan 1 10 20
    [DUT-SW-GigabitEthernet1/0/2] quit
    [DUT-SW] interface GigabitEthernet 1/0/11
    [DUT-SW-GigabitEthernet1/0/11] port access vlan 10
    [DUT-SW-GigabitEthernet1/0/11] quit

    APおよび端末クライアントのDHCPサーバープールを使用してACを設定します。

    [DUT-AC] dhcp enable
    [DUT-AC] dhcp server ip-pool 10
    [DUT-AC-dhcp-pool-10] gateway-list 10.1.1.1
    [DUT-AC-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
    [DUT-AC-dhcp-pool-10] quit
    [DUT-AC] dhcp server ip-pool 20
    [DUT-AC-dhcp-pool-20] gateway-list 20.1.1.1
    [DUT-AC-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
    [DUT-AC-dhcp-pool-20] quit
4.
    RADIUSスキーム、認証ドメイン、およびリモートMAC認証用のサービステンプレートを使用したAC
    の設定。この例では、RADIUSサーバーはiMC、IPアドレスは192.168.207.116です。スイッチのIP
    10.1.1.1がiMCサーバーに正常にアクセスできることを確認します。
    [DUT-AC] radius scheme remotemac
    [DUT-AC-radius-remotemac] radius scheme remotemac
    [DUT-AC-radius-remotemac] primary authentication 192.168.207.116
    [DUT-AC-radius-remotemac] primary accounting 192.168.207.116
[DUT-AC-radius-remotemac] key authentication simple radius
    [DUT-AC-radius-remotemac] key accounting simple radius
    [DUT-AC-radius-remotemac] user-name-format without-domain
    [DUT-AC-radius-remotemac] nas-ip 10.1.1.1
    [DUT-AC-radius-remoteportal] quit
    [DUT-AC] domain remotemacdm
    [DUT-AC-isp-remotemacdm] domain remotemacdm
    [DUT-AC-isp-remotemacdm] authentication lan-access radius-scheme remotemac
    [DUT-AC-isp-remotemacdm] authorization lan-access radius-scheme remotemac
    [DUT-AC-isp-remotemacdm] accounting lan-access radius-scheme remotemac
[DUT-AC-isp-remotemacdm] authorization-attribute idle-cut 15 1024
    [DUT-AC-isp-remotemacdm] quit
    [DUT-AC] wlan service-template remotemac
```

```
[DUT-AC-wlan-st-remotemac] ssid remotemac-wlan
```

[DUT-AC-wlan-st-remotemac] vlan 20

[DUT-AC-wlan-st-remotemac] client-security authentication-mode mac

- [DUT-AC-wlan-st-remotemac] mac-authentication domain remotemacdm [DUT-AC-wlan-st-remotemac] cipher-suite ccmp
- [DUT-AC-wlan-st-remotemac] security-ie rsn
- [DUT-AC-wlan-st-remotemac] service-template enable
- [DUT-AC-wlan-st-remotemac] quit
- 5. 正しいシリアル番号を使用してACでAPを設定し、設定されたサービステンプレートをバインドします。 [DUT-AC] wlan ap AP2 model WA6330 [DUT-AC-wlan-ap-AP2] serial-id 219801A23V8219E00B3F [DUT-AC-wlan-ap-AP2] radio 1

```
[DUT-AC-wlan-ap-AP2-radio-1] radio enable
[DUT-AC-wlan-ap-AP2-radio-1] service-template remotemac
```

6. iMCアカウントにログインし、ACの情報を使用して「Access device」を設定します。

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D Access Policy	Dep	ploy AAA configuration to	a devices in batches	Third-Party Au	henication	Deploy com	mands to devices in balches	
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共有キーとしてradiusと入力し、もう一度radiusと入力して共有キーを確認します。次に、Add manuallyをクリックします。

	enter	Home Resource	User Service Alarm	Report System	1	Services	9.) × 🖈 🖪	🎒 admin 🗸
User Management	۲	😲 User > User Access Policy > Acc	ess Device Management > Access Dev	ice > Add Access Device				() Help
Access User	Ð	Access Configuration						
Guest	Ð							
User Endpoint	Ð	Authentication Port *	1812		Accounting Port *	1813		
User Access Log	Ð	Service Type	Unlimited		Forcible Logout Type	Disconnect user		
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97 David Start		Access Denice Type	Tisc (Gelielai)			Congrouped		
		Shared Key *			Confirm Shared Key *			
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		Device Name	Device IP	Device Model	Comments		Daleta	
		No match found						_
홍콩 Third Party Authenticatio					Cancel			
🛃 Export Task								

デバイスのIPアドレスとして10.1.1.1を入力し、デバイスにDUT-ACという名前を付け(必須ではあり ません)、OKをクリックして設定を確認します。

Add Access De	vice Manually	
Device IP *	10.1.1.1	
Device Name	DUT-AC	
Device Model		

7. iMCでの認証のアクセスポリシーを設定します。iMCのWebページで[Access Policy]をクリックしま す。

Jser Management	۰	📆 User > User	r Access Policy > A	Al Users					**	dd to My Favorites ②H
🐉 Add User		Query Acces	ss Devices	Batch User Operations Import Users						Advanced Q
🚯 All Users		Device IP Ac	ddress Range From	Anness User Guest		То				
Additional Information		Device Nam	10	User Endpoint User Access Log		Access Device Typ	10			Query Reset
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🛵 Import Users			Device Name	Device User Device User Policy		Access Device Management LDAP Service) Se	rvice Group Comments	Details	Operation
	~			10.1.1.1	WX3820H	Portal Service	Un Un			
cess User	U	0				Export Task	Un			
iest	•	0				Customize Terminal Pages	0 Un	grouped		
er Endpoint	•					WeChat Authentication	fees			
er Access Log	•			192 168 41 1	HBC WX3820	DingTalk Authentication Service Parameters	e un	aroused		
er Access Policy	•			192.168.206.54		MC-PWR-EI	Un			
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evice User	•			182-106-207-146			Un	gropes		

次に、Addをクリックして認証ポリシーを追加します。

	oter	Hame Resource User	Service Alarm Report System	🕒 • Giery Devices	🔍 % ★ 🖪 🙆 ad
Iser Management	•	3 User > User Access Policy > Access Policy			Add to My Favorites (2)
ccess User	Ð	Query Access Policies			
luest	•	and the second second			
Iser Endpoint	۲	Access Policy Name			Query Reset
Iser Access Log	•				
Iser Access Policy	۰	Ad3	평, SSID Access Control 등, Hard Disk Serial Numbe	er 🗒 Access MAC Address 🏪 Endpoint Mothe	rboard Serial Number Pool PAccess
Cuick Start		Access Policy Name	Description	Service Group 🖨	Modify Delete
		- acc-portal		Ungrouped	8 🕯
13. Access Service		dotta			
[1] Access Policy		dottx-hw		Ungrouped	2 8
		dottx-wred			
Access Condition		hwlac		Ungrouped	P 🕯
		mac			
				Ungrouped	e e
				Ungicuped	8 0
8 Third Party Authentication					
		postal-aired		Ungrouped	e 🗴
Export Task					

ポリシーの名前(この例ではmacを入力し、グループを選択します。その他のパラメータはデフォルト 設定のままにします。OKをクリックして構成を確認します。

H3C Intelligent Management Center	Home Resource	User Service	Alarm Report	System	- Doery Devices	🔍 > ★ 🖪 🎒 admin 🗸
User Management	D: User > User Access Policy > /	access Policy > Modify Acce	ess Policy			(?) Help
Access User 📀	Basic Information					
Guest						
User Endpoint 📀	Access Policy Name *	mac				
User Access Log 📀	Service Group *	Ungrouped				
User Access Policy 🤤	Description					
① Quick Start	Authorization Information					-
2 Access Service	Access Period	None		Allocate IP *		
IJ. Access Policy	Downstream Rate (Kbps)			Upstream Rate (Rbps)		
	Priority			Deploy User Group		
Access Device Management	Preferred EAP Type	EAP-MD5				
	EAP Auto Negotiate	Enable		Maximum Online Duration for a Logo	on (Minutes)	
	Deploy Address Pool			Deploy VI.AN		
8 Third Party Authentication	Deploy User Profile			Deploy VSI name		
	Deploy ACL					
Export Task	Offline Check Period (Hours)			Authentication Password	Account Password	
ο 15 mm AS A1	A4 A0		© Copyrigh	12007-2022 New H3C Technologies Co., Ltd. All rights	s reserved.Company Name:China	E.

8. iMCで認証するためのアクセスサービスを設定します。iMCのWebページでAccess Serviceをクリックします。

		Home Resource	User Service	Alarm	Report System		🗣 • Darty Draines	۹. ۲	🗙 🖪 🍙 admin 🕳
User Management	•	2 User > User Access Policy >	A Add User					to Add	I to My Favorites 🕐 Help
Access User	•	Query Access Services	Batch User Operations						
Guest	Ð		Import Users						
User Endpoint	Ð	Service Name	Access User Cased		Service Group				Query Reset
User Access Log	•		User Endpoint						
Liser Access Policy	•	Add Reliesh	User Access Log		Calendary and				
			IP Address Management		Till Coles Start				
Ouick Start			User Security Policy		Hig Access Policy			Modify	Delete
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😗 Access Service			Device User Policy	•	LDAP Service				
Di Access Policy					18 Third Party Authentication		Ungrouped	B	Û
					Customize Terminal Pages				
					Page Push Policy WeChat Authentication		Ungrouped	P	â
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									Û
8 Third-Party Authentication									
🛃 Export Task									û
							Ungrouped		û
-									

Addをクリックして、新しいサービスを追加します。

Mallagentent	•						
is User	0	2 User > User Access Policy >	Access Service			Add te	> My Favorites ⑦ H
	•						
indpoint	•	Service Name		Service Group			Query Reset
ccess Log	0						
Access Policy	•	Add Reficish					
Quick Start		Service Name	Description @	Service Suffix	Service Group	Modify	Belete
Arress Senare							î.
Access Policy							8
					Ungrouped		1
						2	
		mac-wirefess			Ungrouped	8	
Third Party Authentication							â
						12	-
Export Task						E.	

サービスの名前を入力し(この例では、サービスの名前はmac-service)、前のステップで デフォルトのアクセスポリシーとして追加したばかりのポリシーを選択します。次に、OKを クリックして構成を確認します。

jement 🕘	3 User > User Access Policy > Access Service >	Copy Access Service				(?) Help
• •	Basic Information					- 1
int 🕘	Service Name *	mac service		Service Suffix		
s Log 💿	Service Group *			Default Access Policy *	mac	Add
s Policy 😑	Default Security Policy *	Do not use		Debut Internet Access Policy *	Do not use	
c Start	Default Proprietary Attribute Assignment Policy *	Do not use				
ss Service	Default Max. Devices for Single Account *			Default Max. Number of Online Endpoints		
ss Policy	Daily Max. Online Duration *					
	Description					
Condition	Available (?)			Transparent Authentication (?)		
	Access Scenario List					-
	Add					
	Access Scenario Access Policy	Security Policy	Proprietary Attribute	Assignment Policy Internet Access Co	nfiguration Priority M	odify Delete
Party Authentication	No match found.					
rt Task			ок	Cancel		
			and the second sec			

9. iMCでアクセスユーザーを設定します。iMCのWebページでAll Access Usersをクリックします。

HBC Intelligent Management Cent		Home Resource	User Service Alarm	Report System		۹) + 🖈	📕 · (🚵 admin 🕳 .
User Management	•	User > All Access Users	Add User				gAdd Io My Favorites 🕜
Access User	•	Query Access Users	Batch User Operations				Advanced C
Dashboard		Account Name	Access User Goest	Dashboard			
🛐 Online Users		User Group	User Endpoint User Access Log	Deliver Message Al Access Users	-		Query Rese
🐯 Deliver Message		Add Batch Import Modify Acco	User Access Policy IP Address Management User Security Policy Decktron Asset Manager	Income Security Conventions Income Security Conventions Denyilist User UDAP User		🖓 User Profiles 🛔 User Gr	oup IIAdditional Infon
All Access Users		Account Name	Device User Device User Device User Policy	Mule terminal User Config Profile Preregistered User Device User	Dreation Date - Start Time - End Time -	Account Status Las	st Offline Time 🔿 Mo
Calify Security Questions		computer	computer1	Access Topology	2023 11 09		13 11 09 16:27 🛛 🖹
		- Cheste		Trouble Report	, 2023-11-09		
🐏 Denylist Üser		Bycnews		Ungrauped	2023-11-09	Normal 202	(3-11-09-15:03 🛛
📑 LDAP User		Bheatt					13-11-09 15:59 🛛 😨
Mate Terminal Liser Config		portal2					
Profile		🔲 test					13-07-20 17:13 🛛 😰
Theregistered User		ca2ea6072c10	ca2es6072c10			Normal 202	
		b20043c30b7a					13-07-06 17:20 📝
Device User		ba52ec545ee3	macpsk clent3	Ungrouped	2023-05-31	Normal 202	13-06-00 10:55 🛛 🖻
Access Topology		e884a5afdcat					13-06-00 16:47 🛛 🖻
-		- Destampiano					P. 05.21.45.40
- Andrew Street St							pres pr

Addをクリックして、新しいアクセスユーザーを追加します。

er Management	Ð	0 User :	All Access Users					Add to My Fav	ontes
cess User	•	Query	Access Users					Adv	vance
Dashboard			unt Name		User Name				
🚮 Online Users					🖞 Service Name			Query	Re
🖏 Deliver Message		Add Ba	tch Import Modify Account	Add to Denylist Cancel Account A	pply for Service Cancel Service 💌 More		🔒 User Profiles 🛔 U	ser Group 🚛 Additio	onal In
🚰 All Access Users			Account Name @	User Name D	User Group	Creation Date 🛩 Start Time 🗉 End	Time Account Status	Last Offline Time	
Security Questions			computer	computer 1	Ungrouped	2023-11-09	Normal	2023-11-09 16:27	
Denyfist User			Wpc-mm/\$		Ungrouped	2023-11-09		2023-11-09 15:03	
LDAP User			Dheart						
hite Terment Liner Contra			portal2	postal2	Ungrouped	2023-09-13	Normal	2023-09-13 11:02	
tofile									
Preregistered User				ca2ea6072c10	Ungrouped				
				macpsk-räent3		2023-06-31	Normal	2023-06-09 16:55	
Access Topology									

このユーザーのユーザー名、ID番号、およびアカウント名を入力します。MAC Authentication Userボックスにチェックマークを付けると、このアカウントにパスワードは 必要ありません。パスワードはアカウント(ユーザーのMACアドレス)と同じになります。

HBC Intelligent Management Cen	ter	Home Resource User	Service Alarm Report	System		- Daery Devices	۹) » 🖈 🖪	🎒 admin 🗸
User Management	•	E User > All Access Users > Add Access User						(7)Heln
Access User	•	Basic Information						-
Dashboard		User Name *	mac.client1	6	Identity Number *	12345		
🛐 Online Users		Contact Address			Telephone			
🙀 Deliver Message		Email			User Group *	Ungrouped	åi	
ត្នំ៊្ន All Access Users		Access Information						-
📳 Security Questions		Account Name *	e084a5afdcaf	Ø				
🛃 Denyisi Liser		Thial Account Defa	ult BYOD User MAC Autho	entication User	Contirm Password *			
Ut LDAP User		Allow User to Change Password	Linab	 le Password Strategy		Modify Password at Ne	xt Logen	
👫 Mute Terminal User Config Profile		Start Time Max. Idle Time (Minutes)			End Time Max. Concurrent Logins			
🖫 Preregistered User		Login Metsage						
🛞 Access Topology		Access Service						
		Service Name	S	ervice Suffix	Def	ault Security Policy	Status	Allocate IP
a 🔥 📕 🗛 🕫			© Copy	ight 2007-2022 New	H3C Technologies Co., Ltd. All	rights reserved.Company Name:	China	E

ページを下にスクロールし、前の手順で追加したサービスにチェックマークを付けます(この例では、 追加したサービスはmac-serviceです)。さらに下にスクロールし、OKをクリックして構成を確認しま オ

8						
HBC Intelligent Management Cent		Home Resource User	Service Alarm Report System			🕈 🖪 🙆 admir
Jser Management	•	Access Service				
	•	Phases Service				
		Service Name	Service Suffix	Default Security Policy	Status	Allocate IP
(III) Dashboard		acc-partal			Available	
1 Online Users		dottx				
		dolta-hw			Available	
🙀 Deliver Message		dot1x-wired				
		mac psk service			Available	
At Access Users		i mac-service				
		mac-wired				
Ga security does to its		mar.wirdens				
E Denyiel User		macpsk-service			Available	
		portal service				
DAP User		portal-wired			Available	
Linto Tormeni Linor Contra		portal wareless				
Profile		PSK			Available	
Proternistened Liver		RadiusService				
T. Longhanna and		in remole-mac			Available	
		remoteportalService				
🛞 Access Topology		Binding Information				
-б <u>а</u> н до		A4 A0	© Copyright 2007-2022 New H3C Technolo	gies Co., Ltd. All rights reserved.Company Nar	ne:China	

- **10.** wlan ap allをACで表示します。結果1が予期されます。 [DUT-AC] display wlan ap all
- 11. SSIDに接続すると、結果2が予期されます。

期待される結果

- 1. AP2は正常にオンラインになるはずです。
- 2. SSIDに接続すると、端末は一致したMACアドレスで認証に成功します。

備考

内部番号

T18

T19リモートポータル認証

目的

リモートポータル認証

ネットワーク図



前提条件

AC、スイッチ、iMCサーバー、およびAPは、上記のネットワークダイアグラムに従って接続されています。 毛順

```
テスト手順
```

```
1.
    AC およびスイッチの VLAN およびインターフェイス VLAN を構成する。
    [DUT-AC] vlan 10
    [DUT-AC-vlan10] quit
    [DUT-AC] interface Vlan-interface 10
    [DUT-AC-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
    [DUT-AC-Vlan-interface10] quit
    [DUT-AC] vlan 20
    [DUT-AC-vlan20] quit
    [DUT-AC] interface Vlan-interface 20
    [DUT-AC-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
    [DUT-AC-Vlan-interface20] quit
    [DUT-SW] vlan 10
    [DUT-SW-vlan10] quit
    [DUT-SW] interface Vlan-interface 10
    [DUT-SW-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface10] quit
    [DUT-SW] vlan 20
    [DUT-SW-vlan20] quit
    [DUT-SW] interface Vlan-interface 20
    [DUT-SW-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface20] quit
2. VLAN と相対ポートを一致させるように AC とスイッチを構成する。
    [DUT-AC] interface GigabitEthernet 1/0/1
    [DUT-AC-GigabitEthernet1/0/1] port link-type trunk
    [DUT-AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
[DUT-AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [DUT-AC-GigabitEthernet1/0/1] quit
    [DUT-SW] interface GigabitEthernet 1/0/2
    [DUT-SW-GigabitEthernet1/0/2] port link-type trunk
    [DUT-SW-GigabitEthernet1/0/2] port trunk permit vlan 1 10 20
    [DUT-SW-GigabitEthernet1/0/2] quit
    [DUT-SW] interface GigabitEthernet 1/0/11
    [DUT-SW-GigabitEthernet1/0/11] port access vlan 10
    [DUT-SW-GigabitEthernet1/0/11] quit
3. AP およびターミナル クライアント用の DHCP サーバー プールを使用して AC を設定する。
    [DUT-AC] dhcp enable
    [DUT-AC] dhcp server ip-pool 10
    [DUT-AC-dhcp-pool-10] gateway-list 10.1.1.1
    [DUT-AC-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
    [DUT-AC-dhcp-pool-10] quit
    [DUT-AC] dhcp server ip-pool 20
```

```
[DUT-AC-dhcp-pool-20] gateway-list 20.1.1.1
[DUT-AC-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
[DUT-AC-dhcp-pool-20] quit
```

4. RADIUS スキーム、認証ドメイン、ポータル Web サーバー、ポータル サーバー、およびリモート ポ ータル認証用のサービス テンプレートを使用して AC を設定します。この例では、RADIUS サーバ ーとポータル サーバーは iMC で、IP アドレスは 192.168.207.116 です。スイッチの IP 10.1.1.1

```
が iMC サーバーに正常にアクセスできることを確認します。
[DUT-AC] radius scheme remoteportal
[DUT-AC-radius-remoteportal] radius scheme remoteportal
[DUT-AC-radius-remoteportal] primary authentication 192.168.207.116
[DUT-AC-radius-remoteportal] primary accounting 192.168.207.116
[DUT-AC-radius-remoteportal] key authentication simple radius
[DUT-AC-radius-remoteportal] key accounting simple radius
[DUT-AC-radius-remoteportal] user-name-format without-domain
[DUT-AC-radius-remoteportal] nas-ip 10.1.1.1
[DUT-AC-radius-remoteportal] quit
[DUT-AC] domain remotemacdm
[DUT-AC-isp-remotemacdm] domain remotemacdm
[DUT-AC-isp-remotemacdm] authentication portal radius-scheme remoteportal
[DUT-AC-isp-remotemacdm] authorization portal radius-scheme remoteportal
[DUT-AC-isp-remotemacdm] accounting portal radius-scheme remoteportal
[DUT-AC-isp-remotemacdm] authorization-attribute idle-cut 15 1024
[DUT-AC-isp-remotemacdm] quit
[DUT-AC] portal web-server portalweb
[DUT-AC-portal-websvr-portalweb] url http://192.168.207.116:8080/portal
[DUT-AC-portal-websvr-portalweb] server-type cmcc
[DUT-AC-portal-websvr-portalweb] url-parameter ssid ssid
[DUT-AC-portal-websvr-portalweb] url-parameter wlanacname value AC
[DUT-AC-portal-websvr-portalweb] url-parameter wlanuserip source-address
[DUT-AC-portal-websvr-portalweb] quit
[DUT-AC] portal server portalserver
[DUT-AC-portal-server-portalserver] ip 192.168.207.116 key simple radius
[DUT-AC-portal-server-portalserver] server-type cmcc
[DUT-AC-portal-server-portalserver] guit
[DUT-AC] wlan service-template remoteportal
[DUT-AC-wlan-st-remoteportal] ssid remoteportal-wlan
[DUT-AC-wlan-st-remoteportal] vlan 20
[DUT-AC-wlan-st-remoteportal] portal enable method direct
[DUT-AC-wlan-st-remoteportal] portal domain remotemacdm
[DUT-AC-wlan-st-remoteportal] portal bas-ip 10.1.1.1
[DUT-AC-wlan-st-remoteportal] portal apply web-server portalweb
[DUT-AC-wlan-st-remoteportal] service-template enable
[DUT-AC-wlan-st-remoteportal] quit
```

5. 正しいシリアル番号を使用して AC の AP を設定し、設定されたサービス テンプレートをバインドします。

[DUT-AC] wlan ap AP2 model WA6330 [DUT-AC-wlan-ap-AP2] serial-id 219801A23V8219E00B3F [DUT-AC-wlan-ap-AP2] radio 1 [DUT-AC-wlan-ap-AP2-radio-1] radio enable [DUT-AC-wlan-ap-AP2-radio-1] service-template remoteportal

6. iMCアカウントにログインし、ACの情報を使用してAccess Deviceを設定します。



Addをクリックしてデバイスを追加します。

14		182207								
Management	•	User > Use	er Access Policy > Acc	ess Device Managemer	nt > Access Device				16 A	dd to My Favorites ② F
is User	•	Query Acce	ess Devices							Advanced C
	•									
Endpoint	•	Device In A	adress ronge From							
Access Log	•	Device Nan	110							Query Reset
locess Policy	•									
Quick Start		Add Delete	Modity 👻 More F	letresh						Default Configurati
Access Service		0	Device Name	Device IP 10	Device Model	Access Location Group	Service Group	Comments	Details	Operation
Access Policy										
			AC-remotePortal				Ungrouped sent			
			AC-remotePortal 172 10 208 4 AC	112 13 1 25 172 16 208 4 192 168 41.1	ICMP H3C WX3820H		Ungrouped Sent Ungrouped			
			AG-rematePortal 172:10:208:4 AG DUT1	112 13 1 25 172 16 208 4 192 168 41 1 192 168 205 54	ICMP H3C WX3820H H3C S5560X-54C-PWR-EI		Ungrouped text Ungrouped Ungrouped			
			AC-rematePortal 172 16 208 4 AC DUI11 56520	112 13 1 25 172 16 208 4 192 168 41.1 192 168 206 54 192 168 206 62	ICMP HSC WX5820H HSC SS660X-54C-PWR-EI		Ungrouped Seat Ungrouped Ungrouped			
			AG-remotePortal 172 16 208 4 AG DUT1 S6520 AG	112 13 1 25 172 16 208 4 192 168 41 1 192 168 206 54 192 168 206 62 192 168 207 145	ICMP H3C WX820H H3C S5560X-54C-PWR-EI H3C WX820H		Ungrouped text Ungrouped Ungrouped Ungrouped			
coss Contron coss Device Management DAP Service stal Service Third-Party Authentication			AG-remotePortal 172:10:208:4 AG DUI11 S6520 AC age 1 of 1.	112 13 1 25 172 16 208 4 102 168 41 1 192 168 206 54 192 168 206 62 192 168 207 145	KCMP HSC WX3820H HSC SS660X-S4C-PWR-EI HSC WX3820H		Unprouped teat Unprouped Unprouped Unprouped			
coss Condition coss Device Management DAP Service orbit Service Third-Party Authentication Export Task			AG-remotePortal 172:10:208:4 AG DUT1 S6520 AG age 1 of 1.	112 13 1 25 172 16 208 4 192 168 41 1 192 168 206 54 192 168 206 52 192 168 207 145	ICMP HIC WXI820H HIC S5600X-64C-PWH-EI HIC WXI820H		Ungrouped teat Ungrouped Ungrouped Ungrouped			···· ··· ···
coss Condition coss Device Management DAP Service Intrid-Party Authentication Faport Task			AC-constrPortal 17216-2084 AC DUI1 S5520 AC AC	112 13 1 26 172 16 208 4 192 168 41 1 192 168 205 54 192 168 206 62 192 168 207 145	ЮнР Нос иховон Нос иховон Нос иховон		Ungrouped Ungrouped Ungrouped Ungrouped			···· ··· ···



		Home Resource	User Service Alarm	Report System		🗣 Query Devices 🛛 🔍	s ★ 🖪 🔒 admin 🗸
User Management	•	🗗 User > User Access Policy > Acces	s Device Management > Access Device >	Add Access Device			(2) Нар
Access User	•	Access Configuration					
Guest	Ð						_
User Endpoint	Ð	Authentication Pert *			Accounting Port *		_
User Access Log	•	Service Type	Unlimited		Foroble Logout Type	Disconnect user	7
User Access Policy	٠	Access Device Type	HBC (General)		Service Group	Ungrouped	-
T Quick Start		Shared Key *			Confirm Shared Key *		
O. Access Service		Access Location Group			Deploy User-Notify Altribute		- 0
		Device List					
		Select Add Manually					
		Device Name	Device IP	Device Model	Comments	Daleto	
LDAP Service		No match found					
		Total Items: 0.					
🔠 Third Parly Authentication					Cancel		
🛃 Export Task							
							1
5 6 All A48	41	A2 A2		© Copyright 2007-2022 Ne	w H3C Technologies Co., Ltd. All rights re-	erved Company Name Chima	E E

デバイスのIPアドレスに10.1.1.1を入力し、デバイスにDUT-ACという名前を付けます(必須ではありません)。次に、OKをクリックして構成を確認します。

Add Access Devi	ce Manually - Google Chrome			×
▲ 不安全 192	168.207.116:8080/imc/acm/accesso	levice/r	n <mark>anua</mark>	Gr
Add Access Devi	ce Manually			
Device IP *	10.1.1.1			
Device Name	DUT-AC			
Device Model				
Comments				
	OK Cancel			

7. iMC で認証のためのアクセス ポリシーを設定します。iMC WebページでAccess Policyをクリックします。

		H	ime Resource	User Son	nco Alarm	Report System			8 ★ 🖪 🙆 admin -
User Management	•	📆 User > U	Jser Access Policy > A	💑 Add User 🏠 All Users 🗊 Addinasd Informa	fran				dd to My Favorites (?) Help
🗞 Add User			coess Devices	Batch User Opera	bons				Advanced Query
😭 All Users		Device If	P Address Range From	Access User Guest	;	То			
Additional Information		Device N	lame	User Endpoint User Access Log User Access Policy	•	Access Device Type			Query Reset
🎳. Batch User Operations		Add Delev	e Modify 🔻 More	IP Address Managem User Security Policy Deskton Asset Manac	iont F	Access Service Access Policy Access Department			3.Default Configuration
🐛 Import Users			Device Name	Device User Device User Policy		Access Device Management	Service Group C	omments Details	Operation
Access Liser	•		DUT-AC		WX3820H	Portal Service	Ungrouped		
Guest	•					Export Task	Ungrouped		
User Endopint			AC remotePortal			Page Push Policy	Ungrouped		
User Access Lon						WeChat Authentication	test		
User Access Policy	•					Service Parameters	> Ungrouped		
IP Address Management	•					-SAC-PWR-EI			
User Security Policy	•								
Desktop Asset Manager	•								
Device User	•			192.168.207.146			Ungrouped		
Device User Policy	۲								
192.168.207, 116:8080/imc/ust/index	isf# 1	Δ 4	A.0			© Copyright 2007-2022 New H3C Tech	nologies Co., Ltd. All rights reserve	od Company Name China	E

次に、Addをクリックして認証用のポリシーを追加します。

Management Center		Tarriso Treasura de Conso	ANTINK MALIN	areas azosan			
Management 🕘		User > User Access Policy > Access Policy				Add to	My Favorites (?) Help
ss User 🔹 😁		Query Access Policies					
t 🕘							
Endpoint 📀		Access Policy Name		Service Group			Query Reset
Access Log 🛛 🗨							
Access Policy 😑	Ľ	d1	W, SSI	D Access Control 9, Hard Disk Serial N	umber 🗒 Access MAC Address 🗛 Endpoint Mo	therboard Serial Num	ber Pool @Access AC
Counce Start		Access Policy Name	Description	÷	Service Group 🖨	Modify	Delete
					Ungrouped	B	â
(J. Access Service							
). Access Policy					Ungrouped		ô
					Ungrouped		û
LDAP Service					Ungrouped		Û
STATE STRATES						R	0
Third Party Authentication							
Third Party Authentication		postal			Ungrouped	B	8

ポリシーの名前を入力し (この例では、名前はremoteportalPolicyです)、そのグループを選択しま す。その後、他のパラメーターはデフォルト設定のままにします。OKをクリックして構成を確認しま す。

BC Intelligent Management Center	Home Resource	User Service Alarm	Report Syste) 🔹 ★ 📕 🍐 admi
r Management 🛛 🔿	Duser > User Access Policy > Acce	ss Policy > Modify Access Policy				(2) Hel
ess User 🕒	Basic Information					
st 🔶						
r Endpoint 🛛 🕀	Access Policy Name *	emotoportalPolicy				
Access Log 🛛 😌	Service Group *	Ingrouped				
r Access Policy 🤤	Description					
Caroc Start	Authorization Information					
🕲 Access Service	Access Period	Nene		Allocate IP *		
[7] Access Policy	Downstream Rate (Kbps)			Upstream Rate (Klips)		
	Priority			Deploy User Group		
	Preferred EAP Type	EAP-MD5				
	EAP Auto Negotiate	Enable		Maximum Online Duration for a Logor	n (Minutes)	
	Deploy Address Pool			Deploy VLAN		
10 Third Party Authentication	Deploy User Profile			Deploy VSI name		
ED HINGE BUT HANDEIN GINT	Deploy ACL					
Export Task	Offline Check Period (Hours)			Authentication Password	Account Password	

8. iMC で認証用のアクセス サービスを設定します。iMC WebページでAccess Serviceをクリックしま す。

HBC Intelligent Management Center		Home Resource	User Service Alarm	Report System		Set Guery Desires	۹. *	🗙 🗮 🍙 admin 🗸
User Management		2 User > User Access Policy >	A (A Lisers				to Add to	o My Favorites @Help
Access User	>	Query Access Services	Additional Information Additional Information					
Guest 🔮	•		Import Users					
User Endpoint	•	Service Name	Access User	Service Group				Query Reset
User Access Log			User Endpoint					
User Access Policy		Add Reliesh	User Access Log	Plant and				
			IP Address Management	2 Access Service				
Cuick Start		Service Name ::	User Security Policy	Hiji Access Policy		Service Group	Modify	Delete
			Device User	Access Condition Access Device Management				â
1 Acress Service			Device User Policy	LDAP Service				â
1 Access Policy				1 Third Party Authentication		Ungrouped	B	û
				Customize Terminal Pages				û
Access Condition				Page Push Policy WeChat Authentication		Ungrouped	P	Û
Access Device Management				Ding Talk Authoritication				û
LDAP Service				ABANG I BAILEIS	-	Ungrouped		1
Proved Proven								
Forta Service						Ungrouped		<u>î</u>
🔠 Third-Party Authentication								
🛃 Export Task						Ungrouped	B	Û
120						Ungrouped		Û
-								

Addをクリックして新しいサービスを追加します。

BC Intelligent Management Center	Home Resource	User Service Alarm	Report System	🗣 • Dany Devices	٩, *	🖈 🖪 🍙 admin 🚽
Iser Management 📀	92 User > User Access Policy > Ar	acess Service			Add to	My Favorites (?) Help
ccess User 📀	Company Constant					
luest O	Query Access Services					
Iser Endpoint 📀	Service Name		Service Group			Query Reset
Iser Access Log 📀						
	Add Refresh					
🚰 Quick Start	Service Name	Description	Service Suffix	Service Group	Modify	Delete
	acc-portal			Ungrouped	B	â
-Ur viccess Service	detta					
1). Access Policy	dottx-law			Ungrouped	B	8
	dot1x-wrod					
	mac-psk-service			Ungrouped		0
Access Device Management						â
					8	
				Ungrouped	8	8
eg Third Party Authentication						
🛃 Export Task					8	
- 6 вн для д	2 A4 A0		© Copyright 2007-2022 New H3C Techno	ologies Co., Ltd. All rights reserved Company Nam	e:China	IC.

サービスの名前を入力し(この例では、サービスの名前はremoteportalServiceです)、前の手順で追加したばかりのポリシーをデフォルトのアクセスポリシーとして選択します。次にOKをクリックして構成を確認します。

-IBC Intelligent Management		Home Resource User	Service Alarm Rep	ort System			» \star 🖪 🍙 admin
Jser Management	Ð	2 User > User Access Policy > Access Service >	Copy Access Service				(?) Help
Access User	•	Basic Information					-
Ruest	•						
Iser Endpoint	Ð	Service Name *	remoteportalService		Service Suffix		
Iser Access Log	•	Service Group *	Ungrouped		Detault Access Policy *	remoteportalPolicy	Add
Iser Access Policy	•	Default Security Policy *	Do not use		Default Internet Access Policy *	Do not use	
Chick Start		Default Proprietary Attribute Assignment Policy *	Do not use				
2. Access Service		Default Max. Devices for Single Account 4			Default Max. Number of Online Endpoints *		
IJ. Access Policy		Daily Max. Online Duration *					
		Description			Transparent Authentication (?)		
		Access Scenario List					
LDAP Service		Add					
		Access Scenario Access Policy	Security Policy	Proprietary Attribute A	ssignment Policy Internet Access Cor	afiguration Priority	Modify Delete
8 Third Party Authenticati		No match lound.					
🛃 Export Task				ок	Cancel		
*6 🐠 🔺	58 🔥 2	A4 A0		Copyright 2007-2022 New H	13C Technologies Co., Ltd. All rights reserved Com	ipany Name:China	

9. iMC でアクセス ユーザーを設定します。iMC WebページでAll Access Usersをクリックします。

HBC Intelligent Management Cente			Home Resource	User Service Alarm	Report System			🗙 🖪 🍙 ad	min 🚽 .
User Management	•	🛐 User	> All Access Users	載し Add User 前 All Users 記 Additional Information				Add to My Favor	ntes 🕐
		Query	Access Users	Batch User Operations				Adva	nced C
Dashboard			sunt Namo	Access User I Guest	Dashboard Online Users				
M Online Users			r Group	User Endpoint User Access Log	Deliver Message	-		Query	Rese
💐 Deliver Message		Add B	alch Import Modify Acco	User Access Policy IP Address Management User Security Policy Desktop Asset Manager	Image: Security Questions Image: Security Questions Image: Question Questions Image: Question Que	8	User Profiles 🛔 Use	er Group 🗃 Addition	al Infor
요금 All Ancess Users			Account Name @	Device User Device User Policy	Preregistered User	Preation Date - Start Time - End Time -	Account Status	Last Offline Time	Mai
Security Questions			computer	computer1	Access lopology	3023-11-09	Normal	2023 11 09 16:27	B
					E Batch Operations Trouble Report	1 023 11 09			
🐏 Denyist User			Denews		Ungrouped	2023 11-09	Normal	2023-11-09-15:03	B
De LOAP-User									B
Block Territori Lines Config.			portal2				Normal	2023-09-13 11:02	
Profile									B
Preregistered User				ca2ea6072c10	Ungrouped		Normal		
									B
Device User			ba52cc545cc3	matpsk clent3	Ungrouped	2023-05-31	Normal	2023-06-00 10:55	
Access Topology									R
									-12
and the second									-

Addをクリックして新しいアクセスユーザーを追加します。

HBC Intelligent Management Center			lome Resource	User Service	Alarm Report	System				★ 🗮 🎒 ad	mn +.
User Management	•	₫] User :	All Access Users							Add to My Favo	entes 🕐
Access User	۰	Query.	Access Users							Adva	nced G
Dashboard			unt Name			User Name					
🛐 Cnline Users		User	Group		4 10	Service Name				Query	Rese
R Deliver Message		Add Ba	Ich Import Modify Accou	nt Add to Denylist Cancel Ad	ccount Apply for Service Ca	ncel Service 🔻 More		ß⊎	ser Profiles 🏭 Us	er Group 🚛 Addition	al Infor
출급 All Access Users			Account Name 10	User Name 🖉	User G	roup Creation (ate 🛩 Start Time 🗄	End Time 0	Account Status	Lost Offline Time	Mor
Security Questions			computer	computer1	Ungroo	ped 2023-11-0			Normal	2023 11 09 16:27	B
E Denylist User			Wpc-new\$		Ungrou	ped 2023-11-0			Normal	2023-11-09 15:03	R
Ut LDAP User			Blost	lean	Ungrou	pert 2023-11-0			Normal	2023-11-09 15:50	R
🖬 Mito Tomesi Hear Conta			portal2	partal2	Ungrou	ped 2023-09-1			Normal	2023-09-13 11:02	B
Profile											B
🖳 Preregistered User				ca2ea0072c10	Ungrou	ped 2023-07-0					B
											B
				macpsk-client?) Ungrow				Normal	2023-06-09-16:55	B
🛞 Access Topology		0									B
		-		manual alient							- P2
6 6 6	A1	A 4	A0		© Copyright	2007-2022 New H3C Technologies Co.	Ltd. All rights reserved C	onipany Name:Chin	a		In In

このユーザーのユーザー名、ID 番号、アカウント名、およびパスワードを入力します。ポータルがこのアカウントにログインするときにパスワードを使用する必要があります。



ページを下にスクロールし、前の手順で追加したサービスにチェックを入れます(この例では、追加したばかりのサービスはremoteportalServiceです)。さらに下にスクロールしてOKをクリックして構成を確認します。

		Loginimessage				
er management	•					
uess user	•					
Dashboard		Access Service				
		Service Name	Service Suffix	Default Security Policy	Status	Allocate IP
🛐 Online Users		acc-portal		Do not use	Available	
-		dot1x				
E Delver Message		datts hw			Available	
All Access Users		dottx-wired				
		mac-psk-service			Available	
County Questions		mas-service				
		mac-wred			Available	
Denyisi User		mac-wireless				
E LDAP User		macpsk-service			Available	
		portal service				
Mute Terminal User Config Profile		portal-wired			Available	
		portal wareless				
🖫 Preregistered User		PSK				
		RadiusService				
		remole-mac			Available	
Access Topology		remoteportalService				

10. AC ですべての WLAN AP を表示します。結果1 が予想されます。

[DUT-AC] display wlan ap all

11. SSID を接続し、ポータル ユーザー アカウント情報を入力します。結果 2 が期待されます。 期待される結果

- 1. AP2は正常にオンラインになるはずです。
- **2.** SSIDを接続すると、Webページが自動的にポップアップ表示されます。ポータルのユーザー名とパ スワードを入力すると、ログインに成功します。

備考

内部番号

T18

T20 SSIDベースのポータル認証ページのプッシュ

目的

SSIDベースのポータル認証ページのプッシュ

ネットワーク図



前提条件

AC、スイッチ、およびAPは、上記のネットワークダイアグラムに従って接続されます。

テスト手順

1. AC およびスイッチの VLAN およびインターフェイス VLAN を設定します。

```
[DUT-AC] vlan 10
[DUT-AC-vlan10] quit
[DUT-AC] interface Vlan-interface 10
[DUT-AC-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
[DUT-AC-Vlan-interface10] quit
[DUT-AC] vlan 20
[DUT-AC] vlan 20
[DUT-AC] interface Vlan-interface 20
[DUT-AC] interface Vlan-interface 20
[DUT-AC-Vlan-interface20] ip address 20.1.1.1 255.255.255.0
[DUT-AC-Vlan-interface20] quit
[DUT-SW] vlan 10
[DUT-SW-vlan10] quit
```

```
[DUT-SW] interface Vlan-interface 10
    [DUT-SW-Vlan-interface10] ip address 10.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface10] guit
    [DUT-SW] vlan 20
    [DUT-SW-vlan20] guit
    [DUT-SW] interface Vlan-interface 20
    [DUT-SW-Vlan-interface20] ip address 20.1.1.2 255.255.255.0
    [DUT-SW-Vlan-interface20] quit

    VLAN と相対ポートを一致させるように AC とスイッチを設定します。

    [DUT-AC] interface GigabitEthernet 1/0/1
     [DUT-AC-GigabitEthernet1/0/1] port link-type trunk
    [DUT-AC-GigabitEthernet1/0/1] undo port trunk permit vlan 1
    [DUT-AC-GigabitEthernet1/0/1] port trunk permit vlan 10 20
    [DUT-AC-GigabitEthernet1/0/1] quit
    [DUT-SW] interface GigabitEthernet 1/0/2
    [DUT-SW-GigabitEthernet1/0/2] port link-type trunk
    [DUT-SW-GigabitEthernet1/0/2] port trunk permit vlan 1 10 20
    [DUT-SW-GigabitEthernet1/0/2] quit
    [DUT-SW] interface GigabitEthernet 1/0/11
    [DUT-SW-GigabitEthernet1/0/11] port access vlan 10
    [DUT-SW-GigabitEthernet1/0/11] quit
3. AP および端末クライアント用の DHCP サーバー プールを使用して AC を設定します。
     [DUT-AC] dhcp enable
    [DUT-AC] dhcp server ip-pool 10
    [DUT-AC-dhcp-pool-10] gateway-list 10.1.1.1
    [DUT-AC-dhcp-pool-10] network 10.1.1.0 mask 255.255.255.0
    [DUT-AC-dhcp-pool-10] quit
     [DUT-AC] dhcp server ip-pool 20
    [DUT-AC-dhcp-pool-20] gateway-list 20.1.1.1
    [DUT-AC-dhcp-pool-20] network 20.1.1.0 mask 255.255.255.0
    [DUT-AC-dhcp-pool-20] quit
4. 認証ドメイン、ポータル Web サーバー、ローカル Web サーバー、およびポータル認証用のサービス
    テンプレートを使用して AC を構成します。(別のログオン ページの logon1.zip と logon2.zip がフラ
    ッシュのディレクトリにあることを確認し、ユーザービューでdirと入力してファイルを確認します)
    [DUT-AC] domain local-domain-ac
    [DUT-AC-isp-local-domain-ac] authentication portal local
    [DUT-AC-isp-local-domain-ac] authorization portal local
    [DUT-AC-isp-local-domain-ac] accounting portal local
    [DUT-AC-isp-local-domain-ac] guit
    [DUT-AC] portal web-server web-ac
    [DUT-AC-portal-websvr-web-ac] url http://10.1.1.1:8080/portal
    [DUT-AC-portal-websvr-web-ac] quit
    異なるポータル認証ページ ファイルを異なる SSID にバインドする:
    [DUT-AC] portal local-web-server http
    [DUT-AC-portal-local-websvr-http] logon-page bind ssid localportal-ac1 file
    logon1.zip
    [DUT-AC-portal-local-websvr-http] logon-page bind ssid localportal-ac2 file
    logon2.zip
    [DUT-AC-portal-local-websvr-http] tcp-port 8080
    [DUT-AC-portal-local-websvr-http] quit
    [DUT-AC] wlan service-template localportal-ac1
    [DUT-AC-wlan-st-localportal-ac1] ssid localportal-ac1
    [DUT-AC-wlan-st-localportal-ac1] vlan 20
    [DUT-AC-wlan-st-localportal-ac1] portal enable method direct
    [DUT-AC-wlan-st-localportal-ac1] portal domain local-domain-ac
    [DUT-AC-wlan-st-localportal-ac1] portal apply web-server web-ac [DUT-AC-wlan-st-localportal-ac1] service-template enable
    [DUT-AC] wlan service-template localportal-ac2
    [DUT-AC-wlan-st-localportal-ac1] ssid localportal-ac2
    [DUT-AC-wlan-st-localportal-ac1] vlan 20
    [DUT-AC-wlan-st-localportal-ac1] portal enable method direct
    [DUT-AC-wlan-st-localportal-ac1] portal domain local-domain-ac
    [DUT-AC-wlan-st-localportal-ac1] portal apply web-server web-ac [DUT-AC-wlan-st-localportal-ac1] service-template enable
5. 正しいシリアル番号を使用して AC の AP を設定し、設定されたサービス テンプレートをバインドしま
```

```
す。
```

[DUT-AC] wlan ap AP2 model WA6330 [DUT-AC-wlan-ap-AP2] serial-id 219801A23V8219E00B3F [DUT-AC-wlan-ap-AP2] radio 1 [DUT-AC-wlan-ap-AP2-radio-1] radio enable [DUT-AC-wlan-ap-AP2-radio-1] service-template localportal-ac1 [DUT-AC-wlan-ap-AP2-radio-1] service-template localportal-ac2

- ポータルのログイン情報用にローカル ポータル ユーザーを構成します。
 [DUT-AC] local-user portal class network
 [DUT-AC-luser-network-portal] password simple 12345678
 [[DUT-AC-luser-network-portal] service-type portal
- 7. AC ですべての WLAN AP を表示します。結果 1 が予想されます。 [DUT-AC] display wlan ap all

8. SSID を接続し、ポータル ユーザー アカウント情報を入力します。結果 2 が予想されます。

- 期待される結果
 - 1. AP2は正常にオンラインになるはずです。
 - 別のSSIDに接続し、ポータルユーザー名とパスワードを入力すると、目的のログオンページに正常 にログインできるはずです。ACでポータルユーザーをすべて表示すると、ポータルユーザー情報が 表示されます。

備考

内部番号

T20