

# 瞭解AnyConnect網路訪問管理器日誌記錄

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## 簡介

本文說明如何啟用AnyConnect Network Access Manager(NAM)日誌記錄以及收集和解釋日誌。文檔中包含的示例描述了不同的身份驗證方案和反映網路訪問管理器對客戶端進行身份驗證所執行步驟的日誌。

## 必要條件

### 需求

本文件沒有特定需求。

### 採用元件

本文件所述內容不限於特定軟體和硬體版本。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除 ( 預設 ) 的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

## 啟用NAM日誌記錄

如果發現可能與NAM模組相關的問題，第一步是啟用擴展日誌記錄功能。當NAM模組運行時，必須在客戶端終結點上完成此操作。

步驟1.開啟AnyConnect視窗並確保其處於焦點狀態。

步驟2.按此組合鍵，**Left Shift + Left Alt + L**。無響應。

步驟3.按一下右鍵Windows系統托盤中的AnyConnect圖示。彈出選單。

步驟4.選擇Extended Logging，使其顯示複選標籤。NAM現在記錄詳細的調試消息。

## 配置NAM資料包捕獲

啟用擴展日誌記錄後，NAM還會保持資料包捕獲緩衝區運行。預設情況下，緩衝區限制為大約1MB。如果需要封包擷取，增加緩衝區大小以便擷取更多活動可能會有所幫助。要擴展緩衝區，必須手動修改XML設定檔案。

步驟1.在Windows PC上，瀏覽到：

C:\ProgramData\Cisco\Cisco AnyConnect Security Mobility Client\Network Access Manager\system\

步驟2.開啟檔案internalConfiguration.xml。

步驟3.找到XML標籤<packetCaptureFileSize>1</packetCaptureFileSize>，並將值調整為10（對於10MB的緩衝區大小，依此類推）。

步驟4.重新啟動客戶端PC以使更改生效。

## 日誌收集

NAM日誌收集通過診斷和報告工具(DART)完成，該工具是AnyConnect套件的一個模組。在安裝程式中，選擇一個模組並使用AnyConnect完整安裝ISO進行安裝。思科媒體服務介面(MSI)安裝程式也可以在ISO中找到。

啟用擴展日誌記錄並執行測試後，只需運行DART並瀏覽對話方塊，日誌捆綁包預設位於Windows案頭上。

除DART捆綁包外，NAM消息日誌也有助於在NAM日誌中查詢相關資料。要查詢NAM消息日誌，請導航到**AnyConnect settings window > Network Access Manager > Message History**。消息日誌包含每個網路連線事件的時間戳，此時間戳可用於查詢與事件相關的日誌。

## 讀取NAM日誌

NAM日誌（尤其是在啟用擴展日誌記錄之後）包含大量資料，其中大部分資料是無關的，可以忽略。本部分列出調試行，以演示NAM建立網路連線的每個步驟。當您處理日誌時，這些關鍵短語可能有助於查詢日誌中與問題相關的部分。

### 未啟用802.1x身份驗證的網路連線的日誌摘要

```
2016 17:20:37.974 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network test123: AccessStateMachine
current state = ACCESS_STOPPED, received userEvent = START
```

說明:這表示使用者已從NAM模組中選擇了一個網路，並且NAM已收到START的userEvent。

```
538: TESTPC: May 16 2016 17:20:37.974 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network test123:
AccessStateMachine new state = ACCESS_STARTED
539: TESTPC: May 16 2016 17:20:37.974 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network test123:
NetworkStateMachine current state USER_T_DISCONNECTED, received access event ACCESS_STARTED
```

說明:訪問狀態機和網路狀態機都已啟動。

```
545: TESTPC: May 16 2016 17:20:37.974 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Ipv4 {EFDAF0F0-CF25-
4D88-B125-E748CD539DFF}: received Cancel event [state: COMPLETE]
```

說明:IPv4例項已取消，以便重置狀態。

```
547: TESTPC: May 16 2016 17:20:37.974 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: starting
makeMatches...
```

```
549: TESTPC: May 16 2016 17:20:37.989 +0600: %NAM-6-INFO_MSG: %[tid=1412]: matching adapter
{484E4FEF-392C-436F-97F0-CD7206CD7D48} and network test123 ...
```

說明:已選擇ID為484E4FEF-392C-436F-97F0-CD7206CD7D48的介面卡以連線到network test123，即NAM中配置的網路連線的名稱。

```
551: TESTPC: May 16 2016 17:20:37.989 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network test123:
AccessStateMachine new state = ACCESS_ATTACHED
```

```
557: TESTPC: May 16 2016 17:20:37.989 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network test123:
AccessStateMachine current state = ACCESS_ATTACHED, received userEvent = CONNECT
```

說明:NAM已成功為此網路使用介面卡。現在NAM嘗試將(連線)關聯到此網路(剛好是無線網路)：

```
561: TESTPC: May 16 2016 17:20:37.989 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: ACE: adapter SM
current: state(STATE_DISCONNECTED_LINK_DOWN), event(EVENT_CONNECT)
```

```
562: TESTPC: May 16 2016 17:20:37.989 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: ACE: adapter SM
state change: STATE_DISCONNECTED_LINK_DOWN -> STATE_ASSOCIATING
```

```
567: TESTPC: May 16 2016 17:20:37.989 +0600: %NAM-6-INFO_MSG: %[tid=1412]: Starting wifi
connection, trying ssid test123 ...
```

```
568: TESTPC: May 16 2016 17:20:37.989 +0600: %NAM-6-INFO_MSG: %[tid=1412]: Connection
Association Started(openNoEncryption)
```

說明:openNoEncryption表示網路已設定為開放式。在無線Lan控制器上，它使用MAC驗證略過(MAB)進行驗證。

```
234: TESTPC: May 16 2016 17:20:38.020 +0600: %NAMSSO-7-DEBUG_MSG: %[tid=1912]: waiting for cs...
```

說明:cs在NAM日誌中可以看到很多。這些是無關的日誌，應當忽略。

```
575: TESTPC: May 16 2016 17:20:38.020 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network test123:
NetworkStateMachine new state USER_T_DISCONNECTED 236: TESTPC: May 16 2016 17:20:38.020 +0600:
%NAMSSO-7-DEBUG_MSG: %[tid=1912]: Tx CP Msg: <?xml version="1.0" encoding="UTF-8"?><SOAP-
ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ssc="http://www.cisco.com/ssc" encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
<SOAP-ENV:Body> <networkStateEvent> <sequenceNumber>16</sequenceNumber> <groupName>Local
networks</groupName> <networkName>test123</networkName> <networkState>Associating</networkState>
<adapterName>Intel(R) Centrino(R) Ultimate-N 6300 AGN</adapterName>
<serverVerifiedName></serverVerifiedName> </networkStateEvent> </SOAP-ENV:Body></SOAP-
ENV:Envelope>
```

說明:以下是簡單對象訪問協定(SOAP)消息，用於通知AnyConnect GUI顯示連線狀態消息，如本例中的**Associating**。在NAM視窗中顯示的任何錯誤消息都可以在日誌中的某個SOAP消息中找到，該消息可用於輕鬆找到問題。

```
582: TESTPC: May 16 2016 17:20:38.020 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: {484E4FEF-392C-436F-97F0-CD7206CD7D48} - Received STATE_AUTHENTICATED
583: TESTPC: May 16 2016 17:20:38.020 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: ACE: adapter SM
current: state(STATE_ASSOCIATING), event(EVENT_AUTH_SUCCESS)
```

說明:NAM收到**AUTH\_SUCCESS**事件，該事件因當前未進行身份驗證而引發。您收到此事件是因為您連線到開放網路，因此預設情況下身份驗證成功。

```
595: TESTPC: May 16 2016 17:20:38.738 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network test123:
AccessStateMachine current state = ACCESS_ASSOCIATING, received adapterState = associated
```

說明:與服務集識別符號(SSID)關聯成功，處理身份驗證的時間。

```
603: TESTPC: May 16 2016 17:20:38.754 +0600: %NAM-6-INFO_MSG:
%[tid=1412][mac=1,6,3c:a9:f4:33:ab:50]: Authentication not required.
604: TESTPC: May 16 2016 17:20:38.754 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: ACE: adapter SM
current: state(STATE_ASSOCIATED), event(EVENT_AUTH_SUCCESS)
605: TESTPC: May 16 2016 17:20:38.754 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: ACE: adapter SM
state change: STATE_ASSOCIATED -> STATE_AUTHENTICATED
```

說明:由於這是一個開放網路，因此預設情況下會進行身份驗證。此時，NAM已連線到網路，現在開始啟動DHCP進程：

```
610: TESTPC: May 16 2016 17:20:38.754 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: {484E4FEF-392C-436F-97F0-CD7206CD7D48} creating a new DHCP work
612: TESTPC: May 16 2016 17:20:38.754 +0600: %NAM-6-INFO_MSG:
%[tid=1412][mac=1,6,3c:a9:f4:33:ab:50]: {484E4FEF-392C-436F-97F0-CD7206CD7D48}: DHCP: Sending
DHCP request
613: TESTPC: May 16 2016 17:20:38.754 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: queueing DHCP work
642: TESTPC: May 16 2016 17:20:40.830 +0600: %NAM-7-DEBUG_MSG: %[tid=1448]: Ipv4 {484E4FEF-392C-436F-97F0-CD7206CD7D48}: connectivity test[03]: IP:10.201.230.196(255.255.255.224)
GW:10.201.230.193 [Success]
643: TESTPC: May 16 2016 17:20:40.830 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Ipv4 {484E4FEF-392C-436F-97F0-CD7206CD7D48}: received Success event [state: WAIT_FOR_CONNECTIVITY]
645: TESTPC: May 16 2016 17:20:40.845 +0600: %NAM-6-INFO_MSG:
%[tid=1412][mac=1,6,3c:a9:f4:33:ab:50]: {484E4FEF-392C-436F-97F0-CD7206CD7D48}: IP Address
Received: 10.201.230.196
646: TESTPC: May 16 2016 17:20:40.845 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Ipv4 Connectivity
Result: SUCCESS
```

說明:NAM成功獲取IP地址。

```
648: TESTPC: May 16 2016 17:20:40.845 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: ACE: adapter SM
current: state(STATE_AUTHENTICATED), event(EVENT_IP_CONNECTIVITY)
649: TESTPC: May 16 2016 17:20:40.845 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: ACE: adapter SM
state change: STATE_AUTHENTICATED -> STATE_CONNECTED
```

說明:收到IP位址後，NAM會將ARP(位址解析通訊協定)要求傳送到閘道(Get-Connectivity)。收到ARP響應後，即表示客戶端已連線。

## 有線網路上使用802.1x和PEAP的網路連線的日誌摘要

```
1286: TESTPC: May 16 2016 17:55:17.138 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network WiredPEAP:
AccessStateMachine new state = ACCESS_STARTED
```

說明:NAM開始連線到網路WiredPEAP。

```
1300: TESTPC: May 16 2016 17:55:17.138 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Binding adapter
Intel(R) 82579LM Gigabit Network Connection and user auth for network WiredPEAP
1303: TESTPC: May 16 2016 17:55:17.138 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network WiredPEAP:
AccessStateMachine new state = ACCESS_ATTACHED
```

解釋：NAM將介面卡匹配到此網路。

```
1309: TESTPC: May 16 2016 17:55:17.138 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: Network WiredPEAP:
AccessStateMachine current state = ACCESS_ATTACHED, received userEvent = CONNECT
1342: TESTPC: May 16 2016 17:55:17.154 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: STATE (4)
S_enterStateAux called with state = CONNECTING (dot1x_sm.c 142)
```

說明:NAM開始連線到此有線網路。

```
1351: TESTPC: May 16 2016 17:55:17.154 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: 8021X (4)
Sent start frame (dot1x_sm.c 117)
```

說明:使用者端傳送EAPOL\_START。

```
1388: TESTPC: May 16 2016 17:55:17.154 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: PORT (3)
net: RECV (status: UP, AUTO) (portMsg.c 658)
1389: TESTPC: May 16 2016 17:55:17.154 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: 8021X (4)
recvd EAP IDENTITY frame (dot1x_util.c 264)
1397: TESTPC: May 16 2016 17:55:17.154 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
EAP State: EAP_STATE_IDENTITY (eap_auth_client.c 940)
```

說明:客戶端收到來自交換機的身份請求，它現在正在查詢要發回的憑據。

```
1406: TESTPC: May 16 2016 17:55:17.154 +0600: %NAM-7-DEBUG_MSG: %[tid=1464]: EAP-CB: credential
requested: sync=8, session-id=1, handle=00AE1FFC, type=AC_CRED_SESSION_START
1426: TESTPC: May 16 2016 17:55:17.169 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: EAP: processing
credential request: sync=8, session-id=1, eap-handle=00AE1FFC, eap-level=0, auth-level=0,
protected=0, type=CRED_REQ_SESSION_START
```

```
1458: TESTPC: May 16 2016 17:55:17.169 +0600: %NAM-6-INFO_MSG: %[tid=1412]: Trying fast
reauthentication for unprotected identity anonymous
1464: TESTPC: May 16 2016 17:55:17.169 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: EAP: credential
request completed, response sent: sync=9
```

說明:預設情況下, Anyconnect將**anonymous**作為未受保護的身份傳送(**outer identity**), 因此它會嘗試使用**anonymous**並檢視伺服器是否可以使用該身份。身份為**anonymous**而不是**host/anonymous**的事實表明它是使用者身份驗證, 而不是電腦身份驗證。

```
1492: TESTPC: May 16 2016 17:55:17.185 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: 8021X (4)
recvd EAP TLS frame (dot1x_util.c 293)
```

說明:RADIUS伺服器傳送一個無任何內容的可擴充驗證通訊協定 — 傳輸層安全(EAP-TLS)訊框。其目的是與客戶端協商EAP-TLS協定。

```
1516: TESTPC: May 16 2016 17:55:17.185 +0600: %NAM-6-INFO_MSG: %[tid=1412]: EAP: EAP suggested
by server: eapTls
1517: TESTPC: May 16 2016 17:55:17.185 +0600: %NAM-6-INFO_MSG: %[tid=1412]: EAP: EAP requested
by client: eapPeap
1518: TESTPC: May 16 2016 17:55:17.185 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: EAP: EAP methods
sent: sync=10
1519: TESTPC: May 16 2016 17:55:17.185 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]: EAP: credential
request 10: state transition: PENDING -> RESPONDED
```

說明:NAM識別伺服器使用EAP-TLS的請求, 但客戶端配置為使用受保護的可擴展身份驗證協定(PEAP)。這就是為什麼NAM會發回PEAP的反優惠。

```
1520: TESTPC: May 16 2016 17:55:17.185 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]:
Auth[WiredPEAP:user-auth]: Authentication state transition:
AUTH_STATE_UNPROTECTED_IDENTITY_SENT_FOR_FAST_REAUTHENTICATION ->
AUTH_STATE_UNPROTECTED_IDENTITY_ACCEPTED
```

說明:RADIUS伺服器接受輸出/未保護的身分。

```
1551: TESTPC: May 16 2016 17:55:17.200 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: 8021X (4)
recvd EAP PEAP frame (dot1x_util.c 305)
1563: TESTPC: May 16 2016 17:55:17.200 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
EAP-PEAP: SSL handshake start (eap_auth_tls_p.c 409)
```

說明:在客戶端收到RADIUS伺服器的確認以繼續使用PEAP後, PEAP的**Protected**部分 ( 建立安全隧道以交換內部憑據 ) 將啟動。

```
1565: TESTPC: May 16 2016 17:55:17.200 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
SSL STATE: SSLv3 write client hello A (eap_auth_tls_p.c 394)
1566: TESTPC: May 16 2016 17:55:17.200 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
SSL STATE: SSLv3 read server hello A (eap_auth_tls_p.c 394)
```

說明:NAM傳送封裝在EAP消息中的客戶端Hello並等待伺服器Hello到來。伺服器的hello包含ISE證書，因此需要一些時間才能完成傳輸。

```
1622: TESTPC: May 16 2016 17:55:17.216 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: 8021X (4)
recvd EAP PEAP frame (dot1x_util.c 305)
1632: TESTPC: May 16 2016 17:55:17.216 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
SSL STATE: SSLv3 read server hello A (eap_auth_tls_p.c 394)
1633: TESTPC: May 16 2016 17:55:17.216 +0600: %NAM-6-INFO_MSG: %[tid=1468][comp=SAE]: CERT (0)
looking up: "/CN=ISE20-1.kurmai.com" (lookup.c 100)
1634: TESTPC: May 16 2016 17:55:17.232 +0600: %NAM-6-INFO_MSG: %[tid=1468][comp=SAE]: CERT (0)
Certificate not found: "/CN=ISE20-1.kurmai.com" (lookup.c 133)
1646: TESTPC: May 16 2016 17:55:17.232 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
SSL_ERROR_WANT_X509_LOOKUP (eap_auth_tls_p.c 193)
```

說明:NAM從伺服器證書提取了ISE伺服器的使用者名稱。由於未在信任儲存中安裝伺服器證書，因此您未在信任儲存中找到該證書。

```
1649: TESTPC: May 16 2016 17:55:17.232 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (5)
EAP_EVENT_CRED_REQUEST queued (eapCredProcess.c 496)
1650: TESTPC: May 16 2016 17:55:17.232 +0600: %NAM-7-DEBUG_MSG: %[tid=1464][comp=SAE]: EAP (5)
EAP: CRED_REQUEST (eapMessage.c 355)
1662: TESTPC: May 16 2016 17:55:17.232 +0600: %NAM-6-INFO_MSG: %[tid=1412]: Getting credentials
from logon.
1685: TESTPC: May 16 2016 17:55:17.232 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]:
Auth[WiredPEAP:user-auth]: ...resumed
```

說明:NAM會尋找建立通道後要傳送到RADIUS伺服器的內部/受保護身份。在此情況下，有線介面卡上已啟用「Automatically use my Windows logon name and password」選項，因此NAM使用Windows登入憑據，而不是要求使用者輸入該憑據。

```
1700: TESTPC: May 16 2016 17:55:17.247 +0600: %NAM-7-DEBUG_MSG: %[tid=1464][comp=SAE]: EAP (0)
SSL STATE: SSLv3 write client key exchange A (eap_auth_tls_p.c 394)
1701: TESTPC: May 16 2016 17:55:17.247 +0600: %NAM-7-DEBUG_MSG: %[tid=1464][comp=SAE]: EAP (0)
SSL STATE: SSLv3 write change cipher spec A (eap_auth_tls_p.c 394)
1750: TESTPC: May 16 2016 17:55:17.278 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
SSL STATE: SSL negotiation finished successfully (eap_auth_tls_p.c 394)
1751: TESTPC: May 16 2016 17:55:17.278 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
EAP-PEAP: SSL handshake done (eap_auth_tls_p.c 425)
1752: TESTPC: May 16 2016 17:55:17.278 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
EAP-PEAP: New session. (eap_auth_tls_p.c 433)
1753: TESTPC: May 16 2016 17:55:17.278 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: EAP (0)
EAP-PEAP: session cipher AES256-SHA. (eap_auth_tls_p.c 441)
```

說明:NAM向伺服器傳送了客戶端金鑰和密碼規範並收到了確認。SSL協商成功，並且已建立隧道。

```
1810: TESTPC: May 16 2016 17:55:17.294 +0600: %NAM-6-INFO_MSG: %[tid=1412]: Protected
identity/(Username) sent.
1814: TESTPC: May 16 2016 17:55:17.294 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]:
Auth[WiredPEAP:user-auth]: Authentication state transition:
AUTH_STATE_UNPROTECTED_IDENTITY_ACCEPTED -> AUTH_STATE_PROTECTED_IDENTITY_SENT
1883: TESTPC: May 16 2016 17:55:17.310 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]:
```

```
Auth[WiredPEAP:user-auth]: Authentication state transition: AUTH_STATE_PROTECTED_IDENTITY_SENT -  
> AUTH_STATE_PROTECTED_IDENTITY_ACCEPTED
```

說明:受保護的身份將傳送到接受該身份的伺服器。現在伺服器請求密碼。

```
1902: TESTPC: May 16 2016 17:55:17.310 +0600: %NAM-7-DEBUG_MSG: %[tid=1464][comp=SAE]: EAP (5)  
deferred password request (eapRequest.c 147)  
1918: TESTPC: May 16 2016 17:55:17.310 +0600: %NAM-6-INFO_MSG: %[tid=1412]: Protected password  
sent.  
1921: TESTPC: May 16 2016 17:55:17.325 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]:  
Auth[WiredPEAP:user-auth]: Authentication state transition:  
AUTH_STATE_PROTECTED_IDENTITY_ACCEPTED -> AUTH_STATE_CREDENTIAL_SENT
```

說明:NAM接收密碼請求並將密碼傳送到伺服器。

```
2076: TESTPC: May 16 2016 17:55:17.856 +0600: %NAM-7-DEBUG_MSG: %[tid=1412]:  
Auth[WiredPEAP:user-auth]: Authentication state transition: AUTH_STATE_CREDENTIAL_SENT ->  
AUTH_STATE_SUCCESS  
2077: TESTPC: May 16 2016 17:55:17.856 +0600: %NAM-7-DEBUG_MSG: %[tid=1468][comp=SAE]: STATE (4)  
S_enterStateAux called with state = AUTHENTICATED (dot1x_sm.c 142)
```

說明:伺服器收到密碼，驗證密碼並傳送EAP-Success。此時身份驗證成功，客戶端在從DHCP獲取IP地址後繼續。