802.1X SSIDでのOver-the-Airパケットキャプチャの復号化

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はじめに

このドキュメントでは、Catalyst 9800 WLCで使用可能なトラブルシューティングツールを使用 して、802.1X WLANのOver-the-Air(OTA)パケットキャプチャを復号化する方法について説明しま す。

前提条件

要件

次の項目に関する知識があることが推奨されます。

- Catalyst 9800 WLCでの802.1X WLANの設定方法
- Catalyst 9800 WLCで条件付きデバッグを有効にして放射性トレースを実行する方法
- スニファモードのアクセスポイントまたはワイヤレス診断ツールを備えたMacbookを使用してOver-the-Airパケットキャプチャを取得する方法

使用するコンポーネント

このドキュメントの情報は、次のソフトウェアとハードウェアのバージョンに基づいています。

- Catalyst 9800-L WLC、Cisco IOS® XE Cupertino 17.9.3
- ・ スニファモードのCatalyst 9130AXEアクセスポイント
- Cisco ISE バージョン 3.3

• Wireshark 4.0.8

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されました。このド キュメントで使用するすべてのデバイスは、クリアな(デフォルト)設定で作業を開始していま す。本稼働中のネットワークでは、各コマンドによって起こる可能性がある影響を十分確認して ください。

背景説明

EAP+8021XでIDが検証されると、サプリカントとオーセンティケータ間のハンドシェイクから生成されたPairwise Transient Key(PTK)を使用してワイヤレストラフィックが暗号化されます。 PTKは、計算にPairwise Master Key(PMK)を使用します。このPMKは、マスターセッションキー (MSK)から取得されます。MSKは、RADIUS Access-Acceptメッセージ(RADIUS共有秘密を使用 して暗号化)の属性値ペア(AVP)に含まれます。その結果、4ウェイハンドシェイクがサードパー ティによって代行受信されても、Over-the-Air(OTA)パケットキャプチャでトラフィックを透過的 に確認することはできません。

通常、PMKの生成は、有線ネットワークで取得されるパケットキャプチャ、RADIUS共有秘密の 情報、および対象の値を抽出するためのコーディングを意味します。代わりに、この方法を使用 して、Catalyst 9800 WLC(放射性トレース)のトラブルシューティングに使用できるツールの 1つを使用してMSKを取得し、Wiresharkなどの既知のパケット分析ツールでMSKを使用できます 。



注:Pairwise Transient Keys(PTK)の計算に必要な情報は、4ウェイハンドシェイクにより 無線接続で交換されるため、この手順はWPA2でのみ機能します。その代わり、WPA3で は、Dragonflyハンドシェイクと呼ばれる方法で、Equals(SAE)の同時認証が実行されま す。

設定

ステップ1:目的のエンドポイントの放射性トレースの開始

Catalyst 9800 WLCで、Troubleshooting > Radioactive Tracesの順に進み、Addボタンをクリック して、トラフィックの復号化を行うデバイスのMACアドレスを入力します。

| + | Cisco Cisco | co Catal | lyst 9800-L Wireless Contro | oller | Welcome admin Last login 10/03/2022 15:13:03 | | B 🕈 🔅 |
|----------|-------------|----------|--------------------------------|--------------------|---|----------------------|--------|
| Q Se | | | Troubleshooting > Radioactive | Trace | | | |
| 📻 Da | | | Conditional Debug Global State | | © Wit | eless Debug Analyzer | |
| G M | | | + Add × Delete | ✓ Start Stop | | Last Run Result | |
| Z ci | | | MAC/IP Address | | No items to display | | |
| (j) Ad | | | | | | MAC/IP Address | 00 |
| © Lie | | | | Add MAC/IP Address | | | × 19 |
| X Tr | | | | MAC/IP Address* | Enter a MAC/IP Address every newline 0093.3794.2730 | | je |
| | | | | Cancel | | Apply to | Device |

放射性トレースリストに追加されたMACアドレス

追加したら、必ずリストの上部にあるStartボタンをクリックして、Conditional Debugを有効にし ます。これにより、データプレーン(MSKがある)で交換される情報を確認できます。

| ¢ | Cisco Catalyst 9800-L Wireless Controller | | | | | | | | |
|---|---|----|---|------------------|--|--|--|--|--|
| 0 | Search Menu Items | | Troubleshooting - > Radioactive Trace | | | | | | |
| | Dashboard | | Conditional Debug Global State: Started | 🗘 Wireless De | | | | | |
| | Monitoring | > | + Add × Delete ✓ Start Stop | | | | | | |
| R | Configuration | \$ | MAC/IP Address Trace file | | | | | | |
| ~ | , coningaration | | 0093.3794.2730 | ► Generate | | | | | |
| Ś | Administration | > | | 1 - 1 of 1 items | | | | | |
| C | Licensing | | | | | | | | |
| × | Troubleshooting | | | | | | | | |

条件付きデバッグが有効な状態で、放射性トレースリストに追加されたデバイス。



注:条件付きデバッグを有効にしないと、コントロールプレーン内のトラフィック (MSKを含まない)だけが表示されます。詳細については、『<u>Catalyst 9800 WLCでのデ</u> <u>バッグとログの収集のトラブルシューティング</u>』の「<u>条件付きデバッグと放射性トレー</u> <u>ス</u>」セクションを参照してください。

ステップ2: Over-the-Airパケットキャプチャの取得

Over-the-Airパケットキャプチャを開始し、エンドポイントを802.1X WLANに接続します。

このOver-the-Air(OTA)パケットキャプチャは、<u>Snifferモードのアクセスポイント</u>を使用するか、 <u>MacBookにワイヤレス診断組み込みツール</u>を使用して取得できます。



注:パケットキャプチャにすべての802.11フレームが含まれていることを確認します。 最も重要なのは、プロセス中に4ウェイハンドシェイクをキャプチャする必要があること です。

4ウェイハンドシェイク(パケット475 ~ 478)を通過するすべてのトラフィックがどのように暗 号化されるかを確認します。

| lo. | | Time | Time delta from p | Source | Destination | Protocol | Length | Sign | al strenç | Signal/nois | Info |
|-----|-----|-----------------|-------------------|-------------------|-------------------|----------|--------|------|-----------|-------------|--|
| | 449 | 14:12:10.052518 | 0.001339000 | IntelCor_94:27:30 | Cisco_aa:18:8f | 802.11 | 248 | -59 | dBm | 35 dB | Reassociation Request, SN=22, FN=0, Flags=C, SSID="ota-dot1x" |
| | 450 | 14:12:10.056200 | 0.003682000 | Cisco_aa:18:8f | IntelCor_94:27:30 | 802.11 | 227 | -34 | dBm | 60 dB | Reassociation Response, SN=3741, FN=0, Flags=C |
| | 451 | 14:12:10.058303 | 0.002103000 | IntelCor_94:27:30 | Cisco_aa:18:8f | 802.11 | 93 | -59 | dBm | 35 dB | Action, SN=23, FN=0, Flags=C |
| | 452 | 14:12:10.059417 | 0.001114000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 109 | -34 | dBm | 60 dB | Request, Identity |
| | 453 | 14:12:10.108429 | 0.049012000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 | -59 | dBm | 35 dB | Response, Identity |
| | 454 | 14:12:10.116909 | 0.008480000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 110 | -34 | dBm | 60 dB | Request, TLS EAP (EAP-TLS) |
| | 455 | 14:12:10.119150 | 0.002241000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 | -59 | dBm | 35 dB | Response, Legacy Nak (Response Only) |
| | 456 | 14:12:10.122792 | 0.003642000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 110 | -33 | dBm | 61 dB | Request, Protected EAP (EAP-PEAP) |
| | 457 | 14:12:10.124621 | 0.001829000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 330 | -60 | dBm | 34 dB | Encrypted Handshake Message |
| | 458 | 14:12:10.166650 | 0.042029000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 1116 | -33 | dBm | 61 dB | Request, Protected EAP (EAP-PEAP) |
| | 459 | 14:12:10.170039 | 0.003389000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 | -59 | dBm | 35 dB | Response, Protected EAP (EAP-PEAP) |
| | 460 | 14:12:10.175814 | 0.005775000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 1112 | -34 | dBm | 60 dB | Request, Protected EAP (EAP-PEAP) |
| | 461 | 14:12:10.180069 | 0.004255000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 | -59 | dBm | 35 dB | Response, Protected EAP (EAP-PEAP) |
| | 462 | 14:12:10.182929 | 0.002860000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 268 | -34 | dBm | 60 dB | Server Hello, Certificate, Server Key Exchange, Server Hello Done |
| | 463 | 14:12:10.236135 | 0.053206000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 308 | -60 | dBm | 34 dB | Encrypted Handshake Message, Change Cipher Spec, Encrypted Handshake Message |
| | 464 | 14:12:10.244438 | 0.008303000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 161 | -34 | dBm | 60 dB | Change Cipher Spec, Encrypted Handshake Message |
| | 465 | 14:12:10.248078 | 0.003640000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 | -60 | dBm | 34 dB | Response, Protected EAP (EAP-PEAP) |
| | 466 | 14:12:10.251302 | 0.003224000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 144 | -34 | dBm | 60 dB | Application Data |
| | 467 | 14:12:10.259110 | 0.007808000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 149 | -60 | dBm | 34 dB | Application Data |
| | 468 | 14:12:10.263865 | 0.004755000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 175 | -34 | dBm | 60 dB | Application Data |
| | 469 | 14:12:10.271714 | 0.007849000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 203 | -60 | dBm | 34 dB | Application Data |
| | 470 | 14:12:10.285280 | 0.013566000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 190 | -33 | dBm | 61 dB | Application Data |
| | 471 | 14:12:10.287513 | 0.002233000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 146 | -60 | dBm | 34 dB | Application Data |
| | 472 | 14:12:10.291081 | 0.003568000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 143 | -34 | dBm | 60 dB | Application Data |
| | 473 | 14:12:10.294213 | 0.003132000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 | -60 | dBm | 34 dB | Response, Protected EAP (EAP-PEAP) |
| | 474 | 14:12:10.315016 | 0.020803000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 108 | -33 | dBm | 61 dB | Success |
| | 475 | 14:12:10.316556 | 0.001540000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAPOL | 221 | -34 | dBm | 60 dB | Key (Message 1 of 4) |
| | 476 | 14:12:10.321017 | 0.004461000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAPOL | 223 | -60 | dBm | 34 dB | Key (Message 2 of 4) |
| | 477 | 14:12:10.322061 | 0.001044000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAPOL | 255 | -34 | dBm | 60 dB | Key (Message 3 of 4) |
| | 478 | 14:12:10.323817 | 0.001756000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAPOL | 199 | -60 | dBm | 34 dB | Key (Message 4 of 4) |
| | 479 | 14:12:10.324699 | 0.000882000 | IntelCor_94:27:30 | Cisco_aa:18:8f | 802.11 | 148 | -60 | dBm | 34 dB | Action, SN=24, FN=0, Flags=C, Dialog Token=3 |
| | 480 | 14:12:10.325899 | 0.001200000 | Cisco_aa:18:8f | IntelCor_94:27:30 | 802.11 | 148 | -34 | dBm | 60 dB | Action, SN=3746, FN=0, Flags=C, Dialog Token=3 |
| | 481 | 14:12:10.334956 | 0.009057000 | IntelCor_94:27:30 | IPv6mcast_02 | 802.11 | 207 | -61 | dBm | 33 dB | QoS Data, SN=13, FN=0, Flags=.pTC |
| | 482 | 14:12:10.348407 | 0.013451000 | IntelCor_94:27:30 | Broadcast | 802.11 | 197 | -61 | dBm | 33 dB | QoS Data, SN=14, FN=0, Flags=.pTC |
| | 483 | 14:12:10.348903 | 0.000496000 | Cisco_aa:18:8f | IntelCor_94:27:30 | 802.11 | 99 | -34 | dBm | 60 dB | Action, SN=3747, FN=0, Flags=C, Dialog Token=90 |
| | 484 | 14:12:10.349222 | 0.000319000 | Cisco_3f:80:f1 | IntelCor_94:27:30 | 802.11 | 197 | -30 | dBm | 64 dB | QoS Data, SN=0, FN=0, Flags=.pF.C |
| | 485 | 14:12:10.349623 | 0.000401000 | IntelCor_94:27:30 | Cisco_aa:18:8f | 802.11 | 99 | -60 | dBm | 34 dB | Action, SN=25, FN=0, Flags=C, Dialog Token=90 |
| | 486 | 14:12:10.350046 | 0.000423000 | IntelCor_94:27:30 | Cisco_3f:80:f1 | 802.11 | 220 | -61 | dBm | 33 dB | QoS Data, SN=15, FN=0, Flags=.pTC |
| | 487 | 14:12:10.530286 | 0.180240000 | IntelCor_94:27:30 | Cisco_3f:80:f1 | 802.11 | 206 | -61 | dBm | 33 dB | QoS Data, SN=16, FN=0, Flags=.pTC |
| | 488 | 14:12:10.616297 | 0.086011000 | Cisco_3f:80:f1 | IntelCor_94:27:30 | 802.11 | 222 | -30 | dBm | 64 dB | QoS Data, SN=1, FN=0, Flags=.pF.C |
| | 489 | 14:12:10.623163 | 0.006866000 | IntelCor_94:27:30 | IPv4mcast_16 | 802.11 | 199 | -61 | dBm | 33 dB | QoS Data, SN=17, FN=0, Flags=.pTC |
| | 490 | 14:12:10.623515 | 0.000352000 | IntelCor_94:27:30 | IPv6mcast_16 | 802.11 | 267 | -61 | dBm | 33 dB | Qos Data, SN=18, HN=0, Flags=.pTC |
| | 491 | 14:12:10.623890 | 0.000375000 | IntelCor_94:27:30 | C15C0_3f:80:f1 | 802.11 | 243 | -61 | dBm | 33 dB | QoS Data, SN=19, FN=0, Flags=.pTC |
| | 492 | 14:12:10.625663 | 0.001773000 | C15C0_3f:80:f1 | IntelCor_94:27:30 | 802.11 | 207 | -30 | dBm | 64 dB | UOS Data, SN=2, FN=0, Flags=.pF.C |
| | 493 | 14:12:10.627395 | 0.001732000 | IntelCor_94:27:30 | C15C0_37:80:71 | 802.11 | 243 | -61 | dBm | 33 dB | Qos Data, SN=20, FN=0, Flags=.pTC |
| | 494 | 14:12:10.628807 | 0.001412000 | C15C0_31:80:11 | IntelCor_94:27:30 | 802.11 | 207 | -30 | dBm | 64 dB | US Data, SN=3, FN=8, Flags=.pF.C |
| | 495 | 14:12:10.632290 | 0.003483000 | intelCor_94:27:30 | C15C0_37:80:71 | 802.11 | 243 | -61 | dBm | 33 dB | QOS Data, SN=21, FN=0, Flags=.pTC |
| | 496 | 14:12:10.632626 | 0.000336000 | IntelCor_94:27:30 | C15C0_3f:80:f1 | 802.11 | 211 | -61 | dBm | 33 dB | QoS Data, SN=22, FN=0, Flags=.pTC |

暗号化されたワイヤレストラフィック。

ステップ3:デバイスの放射性トレースの生成とエクスポート

ステップ1と同じ画面で、無線トラフィックをキャプチャしたら緑色のGenerateボタンをクリックします。

期間ポップアップウィンドウで、ニーズに合った期間を選択します。ここで内部ログを有効にす る必要はありません。

Apply to Deviceをクリックして放射性トレースを生成します。



RAトレースの時間間隔。

放射性トレースの準備が整うと、トレースファイル名の横にdownloadアイコンが表示されます。 これをクリックして放射性トレースをダウンロードします。

| Troubleshooting - > Radioactive Trace | | | | | | | | |
|---------------------------------------|-----------------------|--------------------------------|--|------------------|--|--|--|--|
| Conditional I | ebug Global State: Si | arted | | 🗘 Wireless Deb | | | | |
| + Add | × Delete ✔ St | art Stop | | | | | | |
| MAC | /IP Address | Trace file | | | | | | |
| 0093 | 3794.2730 | debugTrace_0093.3794.2730.tx 📩 | | ► Generate | | | | |
| | ▶ ▶ 10 ▼ | | | 1 - 1 of 1 items | | | | |

ダウンロード可能な放射性トレース。

ステップ4:放射性トレースからのMSKの取得

ダウンロードした放射性トレースファイルを開き、Access-Acceptメッセージの後にeap-msk属性 を検索します。

<#root>

2022/09/23 20:00:08.646494126 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Received from id 1812

Access-Accept

, len 289

| <pre>2022/09/23 20:00:08.64651452 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: user-Name [1] 7 "A 2022/09/23 20:00:08.646516350 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: User-Name [1] 7 "A 2022/09/23 20:00:08.646516350 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: EAP-Message [79] 6 2022/09/23 20:00:08.64657756 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Message-Authentica 2022/09/23 20:00:08.646610188 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: MS-MPPE-Send-Key [2022/09/23 20:00:08.646624268 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: MS-MPPE-Recv-Key [2022/09/23 20:00:08.646624218 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: MS-MPPE-Recv-Key [2022/09/23 20:00:08.646843647 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.646843647 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_900 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.647025884 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64715474 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647</pre> | , | | | |
|--|------------|--------------------|-------------------|--|
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| <pre>2022/09/23 20:00:08.646516250 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Class [25] 55 2022/09/23 20:00:08.64655756 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: EAP-Message [79] 6 2022/09/23 20:00:08.64657756 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: EAP-Key-Name [102] 2022/09/23 20:00:08.64661018& {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.64661262 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.64661262 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.646642158 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.6466842158 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.6466843647 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: MS-MPPE-Recv-Key [2022/09/23 20:00:08.646884847 {wncd_x_R0-0}{1}: [radius] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.646884838 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.capwap_9000 2022/09/23 20:00:08.646984875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.capwap_9000 2022/09/23 20:00:08.646991855 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.646991857 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.646991857 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.647000954 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.64700368 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.64703682 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.64703682 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64713684 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64713874 {wncd_x_R0-0}{1}:</pre> | 2022/09/23 | 20:00:08.646511532 | {wncd_x_R0-0}{1}: | <pre>[radius] [15612]: (info): RADIUS: User-Name [1] 7 "Alic</pre> |
| <pre>2022/09/23 20:00:08.64656556 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: EAP-Message [79] 6 2022/09/23 20:00:08.646577756 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: EAP-Key-Name [102] 2022/09/23 20:00:08.646610188 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: EAP-Key-Name [102] 2022/09/23 20:00:08.646612422 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.646612426 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: MS-MPPE-Send-Key [2022/09/23 20:00:08.646624258 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: MS-MPPE-Rev-Key [2022/09/23 20:00:08.646684354 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: MS-MPPE-Rev-Key [2022/09/23 20:00:08.646684364 {wncd_x_R0-0}{1}: [radius] [15612]: (info): [003.3794.2730:capwap_9000 2022/09/23 20:00:08.646884283 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [003.3794.2730:capwap_9000 2022/09/23 20:00:08.646894283 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.646913353 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.646988966 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.64700408 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.64700408 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.64700408 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.64708702 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.64708702 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_9 2022/09/23 20:00:08.647115452 {wncd_x_R0-0}{1}: [aut-mgr] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647115452 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647115454 {wnc</pre> | 2022/09/23 | 20:00:08.646516250 | {wncd_x_R0-0}{1}: | [radius] [15612]: (info): RADIUS: Class [25] 55 |
| 2022/09/23 20:00:08.646501246 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Message-Authentica 2022/09/23 20:00:08.646601248 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Mender, Microsoft 2022/09/23 20:00:08.64661262 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.64661268 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.64662138 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.646668839 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.646668839 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: MS-MPPE-Rev-Key [2022/09/23 20:00:08.6466843647 {wncd_x_R0-0}{1}: [radius] [15612]: (info): [003.3794.2730:capwap_9000 2022/09/23 20:00:08.646878921 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.646891353 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.646998966 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.647108702 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.647108702 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.64711842 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64711842 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64711848 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64713874 {wncd | 2022/09/23 | 20:00:08.646566556 | {wncd_x_R0-0}{1}: | <pre>[radius] [15612]: (info): RADIUS: EAP-Message [79] 6</pre> |
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| <pre>2022/09/23 20:00:08.646622868 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: Vendor, Microsoft 2022/09/23 20:00:08.646642158 {wncd_x_R0-0}{1}: [radius] [15612]: (info): RADIUS: MS-MPPE-Recv-Key [2022/09/23 20:00:08.64668839 {wncd_x_R0-0}{1}: [radius] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.646878921 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.646813637 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.64691355 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.646904875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:unknom] Pk 2022/09/23 20:00:08.647004108 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:unknom] Pk 2022/09/23 20:00:08.647004108 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.64703882 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_90 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647118674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64713606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64713604</pre> | 2022/09/23 | 20:00:08.646614262 | {wncd_x_R0-0}{1}: | [radius] [15612]: (info): RADIUS: MS-MPPE-Send-Key [16] |
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| 2022/09/23 20:00:08.646878921 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.64684283 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.646913535 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.64691875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0003.3794.2730:capwap_9000 2022/09/23 20:00:08.646996798 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.646998966 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.647000954 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.647004108 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.647004108 {wncd_x_R0-0}{1}: [dut1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.647025898 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_900 2022/09/23 20:00:08.64703682 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_90 2022/09/23 20:00:08.647101204 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_90 2022/09/23 20:00:08.647115452 {wncd_x_R0-0}{1}: [aua-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647116874 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647116874 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64713606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647137606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647137606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647138074 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647138 | 2022/09/23 | 20:00:08.646843647 | {wncd_x_R0-0}{1}: | [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000000 |
| 2022/09/23 20:00:08.646884283 {wncd_x_R0-0}{1}: [dotlx] [15612]: (info): [0093.3794.2730:capwap_9000/ 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dotlx] [15612]: (info): [0000.0000.0000:capwap_9000/ 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dotlx] [15612]: (info): [0003.3794.2730:capwap_9000/ 2022/09/23 20:00:08.646998966 {wncd_x_R0-0}{1}: [dotlx] [15612]: (info): [0093.3794.2730:capwap_9000/ 2022/09/23 20:00:08.646998966 {wncd_x_R0-0}{1}: [dotlx] [15612]: (info): [0093.3794.2730:capwap_9000/ 2022/09/23 20:00:08.64700954 {wncd_x_R0-0}{1}: [dotlx] [15612]: (info): [0093.3794.2730:capwap_9000/ 2022/09/23 20:00:08.64700954 {wncd_x_R0-0}{1}: [dotlx] [15612]: (info): [0093.3794.2730:capwap_9000/ 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [dotlx] [15612]: (info): [0093.3794.2730:capwap_9000/ 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_9000/ 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_9000/ 2022/09/23 20:00:08.647101204 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_900/ 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647118074 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647118074 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647113606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64713606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00: | 2022/09/23 | 20:00:08.646878921 | {wncd_x_R0-0}{1}: | [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000000 |
| 2022/09/23 20:00:08.646913535 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.646914875 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0000.0000.0000:capwap_9000 2022/09/23 20:00:08.646998966 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.64700954 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0090.0000.0000:unknown] Pk 2022/09/23 20:00:08.647004108 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.64704108 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.647008702 {wncd_x_R0-0}{1}: [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.64703868 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.647033682 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.647033682 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_9000 2022/09/23 20:00:08.64711204 {wncd_x_R0-0}{1}: [auat-mgr] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647115452 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647118074 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647128748 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647128748 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647148064 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647146012 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64714 | 2022/09/23 | 20:00:08.646884283 | {wncd_x_R0-0}{1}: | [dot1x] [15612]: (info): [0093.3794.2730:capwap_9000000 |
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| 2022/09/23 20:00:08.647033682 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_90 2022/09/23 20:00:08.647101204 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647115452 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647118074 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647119674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647128748 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647137606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647139194 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.64714990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647025898 | {wncd_x_R0-0}{1}: | [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_9000 |
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| 2022/09/23 20:00:08.647115452 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647118074 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647119674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647128748 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647137606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647139194 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647141990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647101204 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : us |
| 2022/09/23 20:00:08.647116846 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647118074 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647119674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647128748 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647137606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647139194 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647141990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647115452 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : cl |
| 2022/09/23 20:00:08.647118074 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647119674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647128748 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647137606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647139194 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647141990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647116846 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : EA |
| 2022/09/23 20:00:08.647119674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647128748 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647137606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647139194 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647141990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647118074 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : Me |
| 2022/09/23 20:00:08.647128748 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647137606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647139194 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647141990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647119674 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : EA |
| 2022/09/23 20:00:08.647137606 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647139194 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647141990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647128748 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : MS |
| 2022/09/23 20:00:08.647139194 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647141990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: [aa | 2022/09/23 | 20:00:08.647137606 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : MS |
| 2022/09/23 20:00:08.647140612 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647141990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647139194 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : dn |
| 2022/09/23 20:00:08.647141990 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647140612 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : fo |
| 2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : | 2022/09/23 | 20:00:08.647141990 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : au |
| | 2022/09/23 | 20:00:08.647158674 | {wncd_x_R0-0}{1}: | [aaa-attr-inf] [15612]: (info): Applying Attribute : |

eap-msk

0

fb c1 c3 f8 2c 13 66 6e 4d dc 26 b8 79 7e 89 83 f0 12 54 73 cb 61 51 da fa af 02 bf 96 87 67 4c c7 22 cb

2022/09/23 20:00:08.647159912 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : ea 2022/09/23 20:00:08.647161666 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : me 2022/09/23 20:00:08.647164452 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : cl 2022/09/23 20:00:08.647166150 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : in 2022/09/23 20:00:08.647202312 {wncd_x_R0-0}{1}: [auth-mgr] [15612]: (info): [0093.3794.2730:capwap_9000

値の後にeap-msk文字列を付加したものがMSKです。これをコピーして保存し、次の手順で使用

します。

<#root>

2022/09/23 20:00:08.647158674 {wncd_x_R0-0}{1}: [aaa-attr-inf] [15612]: (info): Applying Attribute : eap-msk

0

fb cl c3 f8 2c 13 66 6e 4d dc 26 b8 79 7e 89 83 f0 12 54 73 cb 61 51 da fa af 02 bf 96 87 67 4c c7 22 cl

ステップ 5: MSKをWiresharkのIEEE 802.11復号化キーとして追加する

Wiresharkで、Wireshark > Preferences > Protocols > IEEE 802.11の順に選択します。

「Enable decryption」というボックスにチェックマークを入れて、Decryption keysの横にある Editを選択します。

下部にある「+」ボタンをクリックして新しい復号キーを追加し、キータイプとして「msk」を選択します。

手順4で取得したeap-msk値を(スペースを入れずに)貼り付けます。

最後にOKをクリックしてDecryption keysウィンドウを閉じ、さらにOKをクリックして Preferencesウィンドウを閉じ、復号キーを適用します。



Wireshark設定に追加された復号化キー。

手順6:復号化された802.1Xトラフィックの分析

ワイヤレストラフィックが表示される様子を確認します。このスクリーンショットでは、ARPト ラフィック(パケット482および484)、DNSクエリおよび応答(パケット487および488)、 ICMPトラフィック(パケット491から497)、およびTCPセッション(パケット507)の3ウェイ ハンドシェイクの開始を確認できます。

| NO. | | Time | Time delta from p | Source | Destination | Protocol Le | angth Signal streng | Signayno | is into |
|-----|------|-----------------|-------------------|-------------------------|-------------------|--------------|-----------------------|----------|---|
| | 449 | 14:12:10.052518 | 0.001339000 | IntelCor_94:27:30 | Cisco_aa:18:8f | 802.11 | 248 -59 dBm | 35 dB | Reassociation Request, SN=22, FN=0, Flags=C, SSID="ota-dot1x" |
| | 450 | 14:12:10.056200 | 0.003682000 | Cisco_aa:18:8f | IntelCor_94:27:30 | 802.11 | 227 -34 dBm | 60 dB | Reassociation Response, SN=3741, FN=0, Flags=C |
| | 451 | 14:12:10.058303 | 0.002103000 | IntelCor_94:27:30 | Cisco_aa:18:8f | 802.11 | 93 -59 dBm | 35 dB | Action, SN=23, FN=0, Flags=C |
| | 452 | 14:12:10.059417 | 0.001114000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 109 -34 dBm | 60 dB | Request, Identity |
| | 453 | 14:12:10.108429 | 0.049012000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 -59 dBm | 35 dB | Response, Identity |
| | 454 | 14:12:10.116989 | 0.008480000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 110 -34 dBm | 60 dB | Request, TLS EAP (EAP-TLS) |
| | 455 | 14:12:10.119150 | 0.002241000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 -59 dBm | 35 dB | Response, Legacy Nak (Response Only) |
| | 456 | 14:12:10.122792 | 0.003642000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 110 -33 dBm | 61 dB | Request, Protected EAP (EAP-PEAP) |
| | 457 | 14:12:10.124621 | 0.001829000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 330 -60 dBm | 34 dB | Encrypted Handshake Message |
| | 458 | 14:12:10.166650 | 0.042029000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 1116 -33 dBm | 61 dB | Request, Protected EAP (EAP-PEAP) |
| | 459 | 14:12:10.170039 | 0.003389000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 -59 dBm | 35 dB | Response, Protected EAP (EAP-PEAP) |
| | 460 | 14:12:10.175814 | 0.005775000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 1112 -34 dBm | 60 dB | Request, Protected EAP (EAP-PEAP) |
| | 461 | 14:12:10.180069 | 0.004255000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 -59 dBm | 35 dB | Response, Protected EAP (EAP-PEAP) |
| | 462 | 14:12:10.182929 | 0.002860000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 268 -34 dBm | 60 dB | Server Hello, Certificate, Server Key Exchange, Server Hello Done |
| | 463 | 14:12:10.236135 | 0.053206000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 308 -60 dBm | 34 dB | Encrypted Handshake Message, Change Cipher Spec, Encrypted Handshake Message |
| | 464 | 14:12:10.244438 | 0.008303000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 161 -34 dBm | 60 dB | Change Cipher Spec, Encrypted Handshake Message |
| | 465 | 14:12:10.248078 | 0.003640000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 -60 dBm | 34 dB | Response, Protected EAP (EAP-PEAP) |
| | 466 | 14:12:10.251302 | 0.003224000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 144 -34 dBm | 60 dB | Application Data |
| | 467 | 14:12:10.259110 | 0.007808000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 149 -60 dBm | 34 dB | Application Data |
| | 468 | 14:12:10.263865 | 0.004755000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 175 -34 dBm | 60 dB | Application Data |
| | 469 | 14:12:10.271714 | 0.007849000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 203 -60 dBm | 34 dB | Application Data |
| | 470 | 14:12:10.285280 | 0.013566000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 190 -33 dBm | 61 dB | Application Data |
| | 471 | 14:12:10.287513 | 0.002233000 | IntelCor_94:27:30 | Cisco_aa:18:8f | TLSv1.2 | 146 -60 dBm | 34 dB | Application Data |
| | 472 | 14:12:10.291081 | 0.003568000 | Cisco_aa:18:8f | IntelCor_94:27:30 | TLSv1.2 | 143 -34 dBm | 60 dB | Application Data |
| | 473 | 14:12:10.294213 | 0.003132000 | IntelCor_94:27:30 | Cisco_aa:18:8f | EAP | 146 -60 dBm | 34 dB | Response, Protected EAP (EAP-PEAP) |
| | 474 | 14:12:10.315016 | 0.020803000 | Cisco_aa:18:8f | IntelCor_94:27:30 | EAP | 108 -33 dBm | 61 dB | Success |
| | 475 | 14:12:10.316556 | 0.001540000 | Cisco aa:18:8f | IntelCor 94:27:30 | EAPOL | 221 -34 dBm | 60 dB | Key (Message 1 of 4) |
| | 476 | 14:12:10.321017 | 0.004461000 | IntelCor 94:27:30 | Cisco aa:18:8f | EAPOL | 223 -60 dBm | 34 dB | Key (Message 2 of 4) |
| | 477 | 14:12:10.322061 | 0.001044000 | Cisco aa:18:8f | IntelCor 94:27:30 | EAPOL | 255 -34 dBm | 60 dB | Key (Message 3 of 4) |
| | 478 | 14:12:10.323817 | 0.001756000 | IntelCor 94:27:30 | Cisco aa:18:8f | EAPOL | 199 -60 dBm | 34 dB | Key (Message 4 of 4) |
| | 479 | 14:12:18.324699 | 0.000882000 | IntelCor 94:27:30 | Cisco aa:18:8f | 802.11 | 148 -60 dBm | 34 dB | Action, SN=24, FN=0, Flags=C, Dialog Token=3 |
| | 488 | 14:12:10.325899 | 8,001200000 | Cisco aa:18:8f | IntelCor 94:27:38 | 882.11 | 148 -34 dBm | 60 dB | Action, SN=3746, FN=0, Flags=C, Dialog Token=3 |
| | 481 | 14:12:18.334956 | 0.009057000 | fe80::badf:865b:f10_ | ff02::2 | ICMPv6 | 207 -61 dBm | 33 dB | Router Solicitation from 00:93:37:94:27:30 |
| | 482 | 14:12:18.348487 | 0.013451000 | IntelCor 94:27:30 | Broadcast | ARP | 197 -61 dBm | 33 dB | Who has 172.16.5.17 Tell 172.16.5.66 |
| | 483 | 14:12:10.348903 | 8,000495000 | Cisco aa:18:8f | IntelCor 94:27:38 | 882.11 | 99 -34 dBm | 60 dB | Action, SN=3747, FN=0, Flags=C, Dialog Token=90 |
| | 484 | 14:12:18.349222 | 0.000319000 | Cisco 3f:80:f1 | IntelCor 94:27:38 | ARP | 197 -38 dBm | 64 dB | 172,16,5,1 is at 78:da:6e:3f:80:f1 |
| | 485 | 14:12:18.349623 | 0.000401000 | IntelCor 94:27:38 | Cisco aa:18:8f | 882.11 | 99 -68 dBa | 34 dB | Action, SN=25, FN=0, Flans=C. Dialog Token=90 |
| | 486 | 14:12:18.358846 | 0.000423000 | 172.16.5.66 | 172.18.188.43 | DNS | 228 -61 dBa | 33 dB | Standard guery avaida & www.msftronnerttest.com |
| | 487 | 14:12:18.538286 | 8.188248888 | 172.16.5.66 | 172.18.188.43 | DNS | 286 -61 dBa | 33 /B | Standard guery avad51 & cisco.com |
| | 488 | 14:12:18.616297 | 0.085011000 | 172.18.188.43 | 172.16.5.66 | DNS | 222 - 38 dBa | 64 dB | Standard query resonase @vad51 & cisco.com & 72.163.4.151 |
| | 489 | 14:12:18.623163 | 0.005855000 | 172.16.5.66 | 224.0.0.22 | TOMPy3 | 199 -61 dBa | 33 dB | Membership Report / Join group 224, 0, 0, 251 for any sources / Join group 239, 255, 255, 256 for any sources |
| | 498 | 14:12:18.623515 | 0.000352000 | fe88: : hadf: 865h: f18 | ff82::16 | TCMPv6 | 267 -61 dBa | 33 dB | Multirast Listener Renort Messane v2 |
| | 491 | 14:12:18.623898 | 0.0003325000 | 172.16.5.66 | 172 253 63 99 | TOMP | 243 -61 dBa | 33 dB | Echo (sina) request ideavabal, comes137/51487 ttl=8 (on response foundi) |
| | 492 | 14:12:18.625663 | 0.001773000 | 18 152 216 193 | 172 16 5 66 | TOMP | 243 -01 dbm | 64 dB | time training request Areason and any constant, the transit |
| | 493 | 14:12:18.627395 | 0.0017732000 | 172.16.5.66 | 172 253 63 99 | TOMP | 243 -61 dBa | 33 dB | Echo (ina) request (idev data science) in the start (in response found)) |
| | 494 | 14:12:18.628887 | 0.001/12000 | 18 152 216 129 | 172 16 5 66 | TOMP | 243 -01 dbm | 64 dB | time training request American and a second in transit) |
| | 495 | 14:12:18.632298 | 0.003483000 | 172.16.5.66 | 172 253 63 99 | TOMP | 243 -61 dBa | 33 dB | Echo (ina) request (idaval) constant (idaval) constant (idaval) |
| | 495 | 14:12:18.632626 | 0.003335000 | 172.16.5.66 | 72, 163, 4, 161 | TOMP | 211 -61 dBa | 33 dB | Echo (ping) request indevelop, sequences/sepse, create (in response round) |
| | 490 | 14:12:10.032020 | 0.000330000 | 10.152.102.145 | 122 16 5 56 | TONP | 207 -30 dBs | 55 00 | cho (ping) request in-exceed, seq-ore/szzs, (traize (refy) in Sel) |
| | 40.9 | 14:12:10.032020 | 0.000000000 | IntelCor 04127120 | Cicco 20130101 | 802.11 | 207 -30 dbm | 24 dB | Lation Shelp Diag Share (Dialog Takang |
| | 490 | 14:12:10.032095 | 0.0000030000 | Cicco april9:00 | Tetel/or 04:27:20 | 902.11 | 99 -00 dbm | 60 dB | Action, amizo, news, risgs= |
| | 500 | 14:12:10.0329/2 | 0.000277000 | 172 16 5 66 | 172 252 62 00 | 1002.11 | 242 -61 dBm | 22 dB | Action, amostar, news, rings, vising token=0 |
| | 500 | 14:12:10.034467 | 0.001495088 | 72 162 4 161 | 172.253.03.99 | TONP | 243 -01 088 | 53 GD | Echo (pang) request in-0x00001, Segmoles/22011, ttuli (no response round); |
| | 501 | 14.12:10.006791 | 0.032324080 | 10 152 216 190 | 172.10.5.00 | TONP | 211 -30 d8m | 04 0D | the transfer repty in-execute, sequelegrazzos, ttu-zio (request in 496) |
| | 502 | 14:12:10.668564 | 0.001773000 | 10.152.210.189 | 172.10.5.66 | TONP | 207 -30 dBm | 0-4 dB | The take accessed (The to the exceeded in transit) |
| | 503 | 14:12:10.669017 | 0.000453088 | 10.152.210.189 | 172.10.3.66 | 104P | 207 -30 dBm | 0-4 dB | Hadden exceeded (lime to tive exceeded in transit) |
| | 584 | 14:12:10.718518 | 0.049501000 | 172.10.5.00 | 239.255.255.250 | 550P | 354 -61 dBm | 33 dB | |
| | 505 | 14:12:10.747832 | 0.029314000 | 172.18.108.43 | 172.16.5.66 | UND | 364 -30 dBm | 64 dB | standard query response #XSc48 A WWW.msttconnecttest.com CNAME ncsi-geo.trafficmanager.net CNAME www.mst |
| | 506 | 14:12:10.748179 | 0.000347000 | 172.18.108.43 | 172.16.5.66 | DNS | 364 -30 dBm | 04 dB | Standard query response #XSc48 A www.msttconnecttest.com CNAME ncs1-geo.trafficmanager.net CNAME www.mst |
| | 507 | 14:12:10.750548 | 0.002369000 | 1/2.10.5.06 | 23,218,218,158 | TOP | 203 -61 dBm | 33 dB | 59781 → 80 ISTNI Seg=0 W10=05520 Len=0 M55=1260 W5=256 SACK PERM |

復号化されたワイヤレストラフィック

翻訳について

シスコは世界中のユーザにそれぞれの言語でサポート コンテンツを提供するために、機械と人に よる翻訳を組み合わせて、本ドキュメントを翻訳しています。ただし、最高度の機械翻訳であっ ても、専門家による翻訳のような正確性は確保されません。シスコは、これら翻訳の正確性につ いて法的責任を負いません。原典である英語版(リンクからアクセス可能)もあわせて参照する ことを推奨します。