

# COA ISSUE

This document describes a strange issue in Clearpass 6.7.

1. When add the default [ArubaOS Switching - Terminate Session] enforcement profile to the service. COA will never send to the NAS even if access tracker says it does. The radius packet is never sent by clearpass and not shown in Wireshark port monitor.
2. When try to manually push COA from action tracker, the correct coa-radius enforcement profiles are not shown.
- 3.

## 01 - Service overview

First look at the service here.

Services - MKK-Health check service

Summary	Service	Roles	Posture	Enforcement
<b>Service:</b>				
Name:	MKK-Health check service			
Description:	Web-Based Access - No Authentication; Only Health Check			
Type:	Web-based Health Check Only			
Status:	Enabled			
Monitor Mode:	Disabled			
More Options:	Posture Compliance			
<b>Service Rule</b>				
Match ANY of the following conditions:				
Type	Name	Operator	Value	
1. Host	CheckType	MATCHES_ALL	Health	
<b>Roles:</b>				
Role Mapping Policy:	-			
<b>Posture:</b>				
<b>Posture Policies:</b>				
Posture Policies:	Employee Posture policy			
Default Posture Token:	UNKNOWN (100)			
Remediate End-Hosts:	Disabled			
Remediation URL:				
<b>Enforcement:</b>				
Use Cached Results:	Disabled			
Enforcement Policy:	Employee Health Enforcement			

# COA ISSUE

## 01 - Service overview

In the enforcement it will push the "COA BOUNCE WERKT" profile i create after troubleshooting. THIS PROFILES WORKS!

Services - MKK-Health check service

Summary Service Roles Posture **Enforcement**

Use Cached Results: ☐ Use cached Roles and Posture attributes from previous sessions

Enforcement Policy: Employee Health Enforcement [Modify](#) [Add new Enforcement Policy](#)

**Enforcement Policy Details**

Description:

Default Profile: [ArubaOS Switching - Terminate Session]

Rules Evaluation Algorithm: first-applicable

Conditions	Enforcement Profiles
1. (Tips:Posture EQUALS HEALTHY (0))	Agent Healthy Profile COA BOUNCE WERKT
2. (Tips:Posture NOT_EQUALS HEALTHY (0))	Agent Unhealthy Profile, COA BOUNCE WERKT

## 02 - Look at the "coa bounce werkt" enforcement profile

I Clone this profile from the "[ArubaOS Wireless - Terminate Session]" template en remove all attributes. I add the attributes that are the same on the "[ArubaOS Switching - Terminate Session]" that never works to send the coa. As you can see the clone and wired template are both equal configured with the same type RADIUS\_CoA.

Enforcement Profiles - COA BOUNCE WERKT

Summary Profile Attributes

**Profile:**

Name: COA BOUNCE WERKT

Description: System-defined profile to bounce the switch port on ArubaOS Mobility Controllers, Multi-Port APs & Mobility Access Switches.

Type: RADIUS\_CoA

Action: Disconnect

Device Group List:

**COA WORKS!**

**Attributes:**

Type	Name	Value
1. Radius:IETF	User-Name	={Radius:IETF:User-Name}
2. Radius:IETF	Calling-Station-Id	={Radius:IETF:Calling-Station-Id}
3. Radius:IETF	NAS-Port	={Radius:IETF:NAS-Port}
4. Radius:IETF	NAS-IP-Address	={Radius:IETF:NAS-IP-Address}

## 02 - Look at the "[ArubaOS Switching - Terminate Session]" enforcement profile

See here the default template . When select this enforcement profile in my service. access tracker says it sends the attributes. but it never seems by wireshark or receive the nas.

Enforcement Profiles - [ArubaOS Switching - Terminate Session]

SummaryProfileAttributes

Profile:

Name:

[ArubaOS Switching - Terminate Session]

Description:

System-defined profile to disconnect the user on ArubaOS Switching, HP ProCurve and HP UWW products.

Type:

RADIUS\_CoA

Action:

Disconnect

Device Group List:

-

COA NEVER SEND!

Attributes:

Type	Name	Value
1. Radius:IETF	User-Name	= %{{Radius:IETF:User-Name}}
2. Radius:IETF	Calling-Station-Id	= %{{Radius:IETF:Calling-Station-Id}}
3. Radius:IETF	NAS-Port	= %{{Radius:IETF:NAS-Port}}
4. Radius:IETF	NAS-IP-Address	= %{{Radius:IETF:NAS-IP-Address}}
5. Radius:IETF	Event-Timestamp	=

## 03 - Access Tracker (the good profile)

first check access tracker when it does right.

Request Details

SummaryInputOutput

Login Status:	ACCEPT
Session Identifier:	W0000002f-01-5ac956d8
Date and Time:	Apr 08, 2018 01:40:08 CEST
End-Host Identifier:	406c8f029625
Username:	406c8f029625
Access Device IP/Port:	-
System Posture Status:	HEALTHY (0)

Policies Used -

Service:	MKK-Health check service
Authentication Method:	Not applicable
Authentication Source:	-
Authorization Source:	-
Roles:	-
Enforcement Profiles:	Agent Healthy Profile, COA BOUNCE EINDENLIJK
Service Monitor Mode:	Disabled
Online Status:	Not Available

Showing 14 of 1-100 records

Change StatusShow ConfigurationExportShow LogsClose

This profile works correct.

## 03 - Access Tracker (the good profile)

Access tracks shows de radius response, and its is visible with wireshark. The NAS response correctly and termination take place.

**Request Details**

Summary Input **Output**

Enforcement Profiles:	Agent Healthy Profile, <b>COA BOUNCE EINDENLIJK</b>
System Posture Status:	HEALTHY (0)
Audit Posture Status:	UNKNOWN (100)

**RADIUS Response**

Radius:IETF:Calling-Station-Id	40-6c-8f-02-96-25
Radius:IETF:NAS-IP-Address	192.168.5.33
Radius:IETF:NAS-Port	25
Radius:IETF:User-Name	Administrator@marcelkoedijk.nl

**Posture Response**

**Posture Evaluation Results**

**Application Response**

Showing 14 of 1-100 records

Change Status Show Configuration Export Show Logs Close

## 04 - Look at Access Tracker to Manual do COA

So why my "coa bounce" (that i copied from a wireless profile) works fine and the [ArubaOS Switching - Terminate Session] profile dont works.

Look at what happend when try a manual coa of accepted radius request in accesstracker

**Request Details**

Summary	Input	Output
Login Status:	ACCEPT	
Session Identifier:	R0000003a-01-5ac95704	
Date and Time:	Apr 08, 2018 01:40:52 CEST	
End-Host Identifier:	40-6c-8f-02-96-25 (Computer / Windows / Windows 7)	
Username:	Administrator@marcelkoedijk.nl	
Access Device IP/Port:	192.168.5.33:25 (EDGE-SW01 / Aruba)	
System Posture Status:	HEALTHY (0)	

**Policies Used -**

Service:	MKK-WIRED-DOTX-EAPTLS-WERKPLEKKEN
Authentication Method:	EAP-TLS
Authentication Source:	AD:DC01.MARCELKOEDIJK.NL
Authorization Source:	DC01.MARCELKOEDIJK.NL
Roles:	CN=Administrators;CN=Builtin;DC=marcelkoedijk;DC=nl, CN=Domain Admins;CN=Users;DC=marcelkoedijk;DC=nl, CN=Enterprise Admins;CN=Users;DC=marcelkoedijk;DC=nl, CN=Group Policy Creator Owners;CN=Users;DC=marcelkoedijk;DC=nl, CN=Schema Admins;CN=Users;DC=marcelkoedijk;DC=nl, [Machine Authenticated], [User Authenticated]
Enforcement Profiles:	MKK-VLAN5-LAN

Showing 13 of 1-100 records

**Change Status** Show Configuration Export Show Logs Close

## 04 - Look at Access Tracker to Manual do COA

Why i only see here the "ArubaOS wireless" radius-coa profiles and not the other "ArubaS switching" default templates.

# COA ISSUE

Note that the coa bounce werkt profile was cloned from the arubaos wireless - terminate session profile. And i changed this to be equal to the arubaos switches - terminate session profile.

Why this are not vissibale templates. they are the same types.

Even when it isnt possible to do a "arubaos switching - terminate session profile".  
Why it was shown in access tracker as send radius packets?

**Request Details**

**Access Control Capabilities -**

Select Access Control Type : ☐ Agent ☐ SNMP ☒ RADIUS CoA ☐ Server Action

RADIUS CoA Type: [ArubaOS Wireless - Terminate Session ▼]

- [ArubaOS Wireless - Terminate Session]
- [ArubaOS Wireless - Bounce Switch Port]
- COA BOUNCE WERKT

**Submit** **Cancel**

## 05 - Radius\_coa enforcement profiles

When i look at the enforcement profiles there are the following RADIUS\_COA profiles.

Enforcement Profiles

Filter: Type contains RADIUS\_COA Go Clear Filter Show 50 records

Add  
Import  
Export All

#	Name	Type	Description
1.	[Cisco - Terminate Session]	RADIUS_CoA	System-defined profile to disconnect user (Cisco)
2.	[Cisco - Disable Host-Port]	RADIUS_CoA	System-defined profile to disable host port (Cisco)
3.	[Cisco - Bounce-Host-Port]	RADIUS_CoA	System-defined profile to bounce host port (Cisco)
4.	[Cisco - Reauthenticate-Session]	RADIUS_CoA	System-defined profile to re-authenticate session (Cisco)
5.	[ArubaOS Switching - Terminate Session]	RADIUS_CoA	System-defined profile to disconnect the user on ArubaOS Switching, HP ProCurve and HP UWW products.
6.	[ArubaOS Wireless - Terminate Session]	RADIUS_CoA	System-defined profile to disconnect the user on ArubaOS Mobility Controllers, Aruba Instant APs & Mobility Access Switches.
7.	[Juniper Terminate Session]	RADIUS_CoA	System-defined profile to disconnect user (Juniper)
8.	[Trapeze - Terminate Session]	RADIUS_CoA	System-defined profile to disconnect user (Trapeze)
9.	[Aerohive - Terminate Session]	RADIUS_CoA	System-defined profile to disconnect user (Aerohive)
10.	[Motorola - Terminate Session]	RADIUS_CoA	System-defined profile to disconnect user (Motorola)
11.	[ArubaOS Wireless - Bounce Switch Port]	RADIUS_CoA	System-defined profile to bounce the switch port on ArubaOS Mobility Controllers, Multi-Port APs & Mobility Access Switches.
12.	[ArubaOS Switching - Bounce Switch Port]	RADIUS_CoA	System-defined profile to bounce the switch port on ArubaOS Switching products.
13.	[H3C - Terminate Session]	RADIUS_CoA	System-defined profile to disconnect the user on H3C products (including HPE FlexNetwork / Comware).
14.	[H3C - Bounce Switch Port]	RADIUS_CoA	System-defined profile to bounce the switch port on H3C products (including HPE FlexNetwork / Comware).
15.	[H3C - Disable Switch Port]	RADIUS_CoA	System-defined profile to disable the switch port on H3C products (including HPE FlexNetwork / Comware).
16.	COA BOUNCE WERKT	RADIUS_CoA	System-defined profile to bounce the switch port on ArubaOS Mobility Controllers, Multi-Port APs & Mobility Access Switches.

Showing 1-16 of 16 Copy Export Delete

cloned and changed with values equal to switches-terminate-session



## ACCESS TRACKER - (the bad profile)

**Request Details**

SummaryInputOutput

Login Status:	ACCEPT
Session Identifier:	W00000028-01-5ac95466
Date and Time:	Apr 08, 2018 01:29:42 CEST
End-Host Identifier:	406c8f029625
Username:	406c8f029625
Access Device IP/Port:	-
System Posture Status:	HEALTHY (0)

Policies Used -

Service:	MKK-Health check service
Authentication Method:	Not applicable
Authentication Source:	-
Authorization Source:	-
Roles:	-
Enforcement Profiles:	Agent Healthy Profile, [ArubaOS Switching - Terminate Session]
Service Monitor Mode:	Disabled
Online Status:	Not Available

◀▶ Showing 31 of 1-100 records ▶▶

Change StatusShow ConfigurationExportShow LogsClose

## ACCESS TRACKER - (the bad profile)

Conclusion here...

When enforcement is [ArubaOS Switching - Terminate Session] is used, access tracker says its send (BUT ISNT).

When enforcement is "COA BOUNCE EINDENLIJK" is used, access tracks sends the samen radius response attributes and it works correctly.

# COA ISSUE

"COA BOUNCE EINDELIJK" is equal to [ArubaOS Switching - Terminate Session] but copied from the wireless template.

When manually do COA only the wireless profiles are visible, so here the issue starts.

Dont have any clue why the other radius\_coa enforcement are not visible here.

**Request Details**

**Summary** **Input** **Output**

Enforcement Profiles: Agent Healthy Profile, [ArubaOS Switching - Terminate Session]  
System Posture Status: HEALTHY (0)  
Audit Posture Status: UNKNOWN (100)

**RADIUS Response**

Radius:IETF:Calling-Station-Id	40-6c-8f-02-96-25
Radius:IETF:NAS-IP-Address	192.168.5.33
Radius:IETF:NAS-Port	25
Radius:IETF:User-Name	Administrator@marcelkoedijk.nl

**Posture Response**  
**Posture Evaluation Results**  
**Application Response**

Showing 31 of 1-100 records | Change Status | Show Configuration | Export | Show Logs | Close