

Fix WLC "Reached Max Limit for Number of Flow Exporters" Error

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Introduction

This document describes how to fix error "Reached Max Limit for Number of Flow Exporters" in the telemetry task for a WLC using Cisco Catalyst Center.

Prerequisites

Requirements

You require access to:

- Cisco Catalyst Center GUI with SUPER-ADMIN role.
- AirOS Wireless Controller CLI and GUI with admin role.

Components Used

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Problem

Cisco Catalyst Center telemetry provisioning is expected to fail when a flow exporter is already configured in Cisco Wireless Controller WLC 5520 with AirOS because that device only supports one flow exporter to be configured. Thus, Cisco Catalyst Center is unable to override that configuration due to that WLC limitation to configure two or more flow exporters, resulting in a provisioning task failure:

Deployment of netflow setting initiated.

FAILED: Configuring new Netflow Collector Server Configuration Settings IP: [10.10.10.10] and Port: [6007] on the device: 10.88.244.161 failed with exception: Error in running XDE Procedure. Error Message: Error occurred while executing the command **config flow create exporter 10.10.10.10 10.10.10.10 port 6007**. Command Output: config flow create exporter 10.10.10.10 10.10.10.10 port 6007 Reached Max limit for Number of Flow Exporters.

WLC-5520

Management IP 10.88.244.161
Device Type Cisco 5520 Series Wireless Controllers
Device Role ACCESS

COMPLETED: Deconfiguring old SNMP Trap Server Configurations Settings IP: [10.10.10.10] on the device: 10.88.244.161 completed successfully.
COMPLETED: Configuring new SNMP Trap Server Configurations Settings IP: [10.10.10.10] on the device: 10.88.244.161 completed successfully.

Deployment of dns setting

SUCCESS

No change in setting, so no operation was performed
Process success on all devices.

Deployment of netflow setting

FAILED
[Retry](#)

Deployment of netflow setting initiated

FAILED: Configuring new Netflow Collector Server Configuration Settings IP: [10.10.10.10] and Port: [6007] on the device: 10.88.244.161 failed with exception: Error in running XDE Procedure, Error Message::Error ocured while executing the command 'config flow create exporter 10.10.10.10 10.10.10.10 port 6007'.Command Output : config flow create exporter 10.10.10.10 10.10.10.10 port 6007 Reached Max limit for Number of Flow Exporters..

Application telemetry

SUCCESS

Configuration of application telemetry is only applicable upon enable/disable application telemetry action, so no operation was performed

Telemetry Task Error Details

Note: Cisco Catalyst Center can only push the first NetFlow collector server for Wireless Controller as it has a restriction on the number of flow exporters.

Notice that the Cisco Catalyst Center is trying to push a flow exporter to the WLC, but the device already has one configured as confirmed in the CLI output:

```
<#root>
```

```
(Cisco Controller) >
```

```
show flow exporter summary
```

Exporter-Name	Exporter-IP	Port
=====	=====	=====
fer_exporter	10.10.10.10	6007

```
(Cisco Controller) >
```

```
show flow exporter statistics
```

```
Exporter-name: fer_exporter
Total Flows Sent: 1147297289

Total Pkts Sent: 81828210
Total Pkts Dropped: 0
Last Sent Time: Sat Mar 24 19:37:18 2159
```

Cisco Catalyst Center tries to push the Netflow Collector settings configured in Network Settings to the WLC, but the device reaches out the flow exporter limitation of having only one configured. That causes the task to fail even if the flow exporter is the same.

Solution

1- Verify that the AirOS WLC has reached the max limit number of flow exporters by running a command in the WLC CLI:

```
<#root>
```

```
(Cisco Controller) >
```

```
show flow exporter summary
```

Exporter-Name	Exporter-IP	Port
=====	=====	=====
fer_exporter	10.10.10.10	6007

In this CLI output, you see that the WLC already has a flow exporter configured called fer_exporter and it is causing conflicts to Cisco Catalyst Center during the telemetry provisioning task.

2- Navigate to the Cisco Catalyst Center **Menu > Design > Network Settings > Telemetry** Tab and validate that you have configured a Netflow Collector Server. You can configure Cisco Catalyst Center or an external server as Flow Collector server:

IP Address Pools SP Profiles Wireless **Telemetry**

Configure Syslog, Traps and NetFlow properties for your devices. The system will deploy these settings when devices are assigned to a site or provisioned.

Cisco DNA Center is your default SNMP collector. It polls network devices to gather telemetry data. [View details](#) on the metrics gathered and the frequency with which they are collected.

▼ NetFlow ☰

Choose Cisco DNA Center to be your NetFlow collector server, and/or add any external NetFlow collector server. This is the destination server for NetFlow export from network devices. Cisco DNA Center will only push the first NetFlow collector server for Wireless Controller as it has a restriction on the number of flow exporters.

Use Cisco DNA Center as NetFlow collector server

INTERFACES FOR APPLICATION TELEMETRY

To enable telemetry on a device , select the device from the Provision table and choose "Actions->Enable Application Telemetry" By default, All access interfaces on a switch OR all LAN-facing interfaces on a router will be provisioned. To override this default behavior, tag specific interfaces to be designated as LAN interface, by putting the keyword "lan" in the interface description.

Once specific interfaces are tagged those interfaces will be monitored.

Add an external NetFlow collector server

Only the external server destination will be configured on network devices. Flow records will not be configured.

en.

Cisco DNA Center Netflow Collector Settings

3- Log in to the AirOS WLC GUI and navigate to **Wireless > Netflow > Exporter** to see the list of flow exporters configured in the device:

Wireless

- Access Points
 - All APs
 - Direct APs
 - Radios
 - 802.11a/n/ac/ax
 - 802.11b/g/n/ax
 - Dual-Band Radios
 - Dual-5G Radios
 - Global Configuration
- Advanced
 - Mesh
 - AP Group NTP
 - ATF
 - RF Profiles
 - FlexConnect Groups
 - FlexConnect ACLs
 - FlexConnect VLAN Templates
 - Network Lists
 - 802.11a/n/ac/ax
 - 802.11b/g/n/ax
 - Media Stream
 - Application Visibility And Control
 - Lync Server
 - Country
 - Timers
 - Netflow
 - Monitor
 - Exporter
 - QoS

Exporter List

Exporter Name	Exporter Ip	Port Number
fer_exporter	10.10.10.10	6007

WLC GUI Netflow Config

4- Search for your flow exporter name, and from the arrow drop down menu, select **Remove**. In this example, the name of the flow exporter already configured is named `fer_exporter` as confirmed in Step 1.

Wireless

- Access Points
 - All APs
 - Direct APs
 - Radios
 - 802.11a/n/ac/ax
 - 802.11b/g/n/ax
 - Dual-Band Radios
 - Dual-5G Radios
 - Global Configuration
- Advanced
 - Mesh

Exporter List

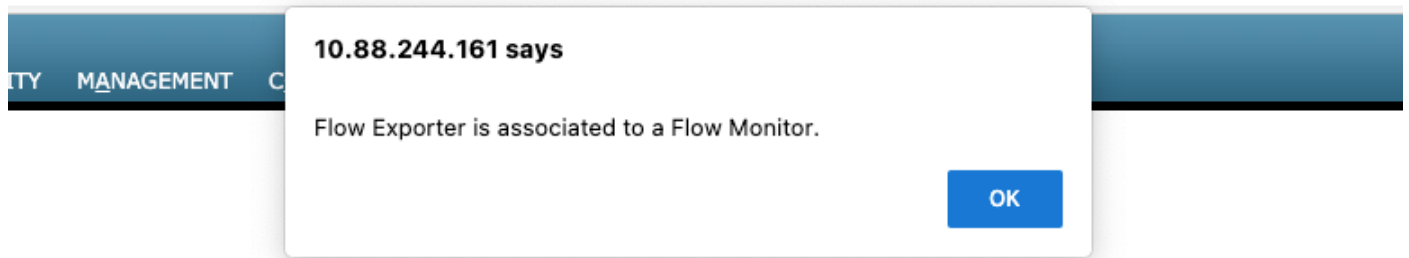
Exporter Name	Exporter Ip	Port Number
fer_exporter	10.10.10.10	6007

Remove

Remove Exporter

5- If the Flow exporter is in use when you are removing it, you can receive a warning message that the exporter is associated in a Flow Monitor. You cannot remove it until you delete the association by removing

the Flow Monitor first:



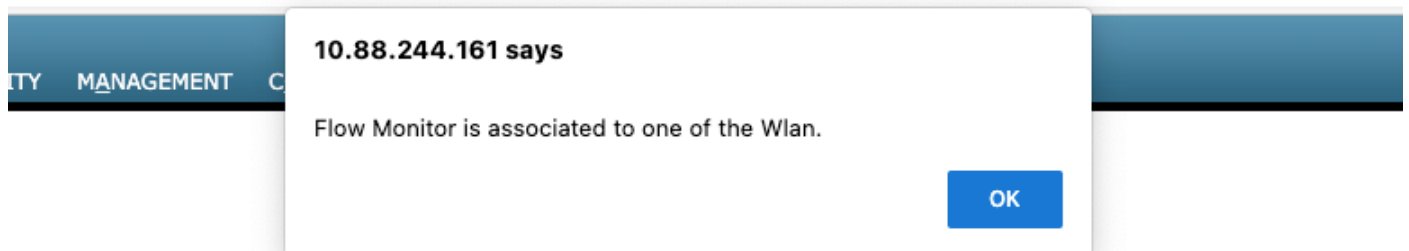
Flow Exporter

6- To remove the Flow monitor, navigate to **Wireless > Netflow > Monitor** and select the Flow Monitor associated to fer_exporter so you can remove it:



Flow Monitor

In this example, the name of the flow monitor associated to the flow exporter is named fer_Monitor. If the Flow monitor is associated to a WLAN, you can receive a similar message as with the flow exporter due to an association to a WLAN when removing the flow monitor:



WLC GUI Netflow Config

7- Navigate to **WLANs** tab and expand the **WLANs** section to view the WLANs configured in the WLC:

WLAN ID	Type	Profile Name	WLAN SSID	Admin Status	Security Policies
<input type="checkbox"/> 1	WLAN	testt	test	Disabled	[WPA2][Auth(802.1X)]
<input type="checkbox"/> 2	WLAN	CiscoSensorProvisioning	CiscoSensorProvisioning	Enabled	[WPA2][Auth(802.1X)]
<input type="checkbox"/> 17	WLAN	San_Angel_Global_F_aaafacd3	San_Angel_Open	Disabled	None
<input type="checkbox"/> 18	WLAN	aaa_profile	aaa	Enabled	[WPA2][Auth(802.1X)]
<input type="checkbox"/> 19	WLAN	San Angel Guest_profile	San Angel Guest	Enabled	MAC Filtering
<input type="checkbox"/> 20	WLAN	San Angel PSK_profile	San Angel PSK	Enabled	None

WLC GUI WLANs Config

8- Open all the WLANs configuration to review if the Flow Monitor field has the fer_Monitor selected in the QoS tab so you can remove it by selecting the option none:

WLANs > Edit 'San_Angel_Global_F_aaafacd3'

General Security QoS Policy-Mapping Advanced

Quality of Service (QoS)

Application Visibility Enabled

AVC Profile

Flex AVC Profile

Netflow Monitor

Fastlane

[Override Per-User Bandwidth Contracts \(kbps\) 16](#)

WLC GUI Netflow Config

WLANs > Edit 'San_Angel_Global_F_aaafacd3'

General Security QoS Policy-Mapping Advanced

Quality of Service (QoS)

Application Visibility Enabled

AVC Profile

Flex AVC Profile

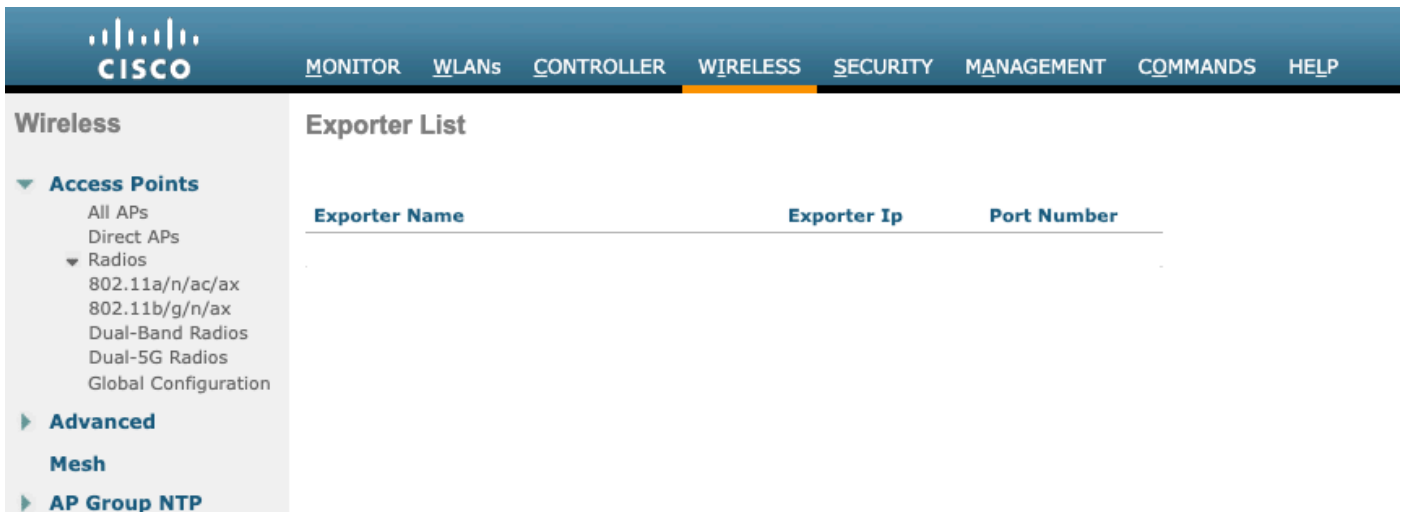
Netflow Monitor

Fastlane

[Override Per-User Bandwidth Contracts \(kbps\) 16](#)

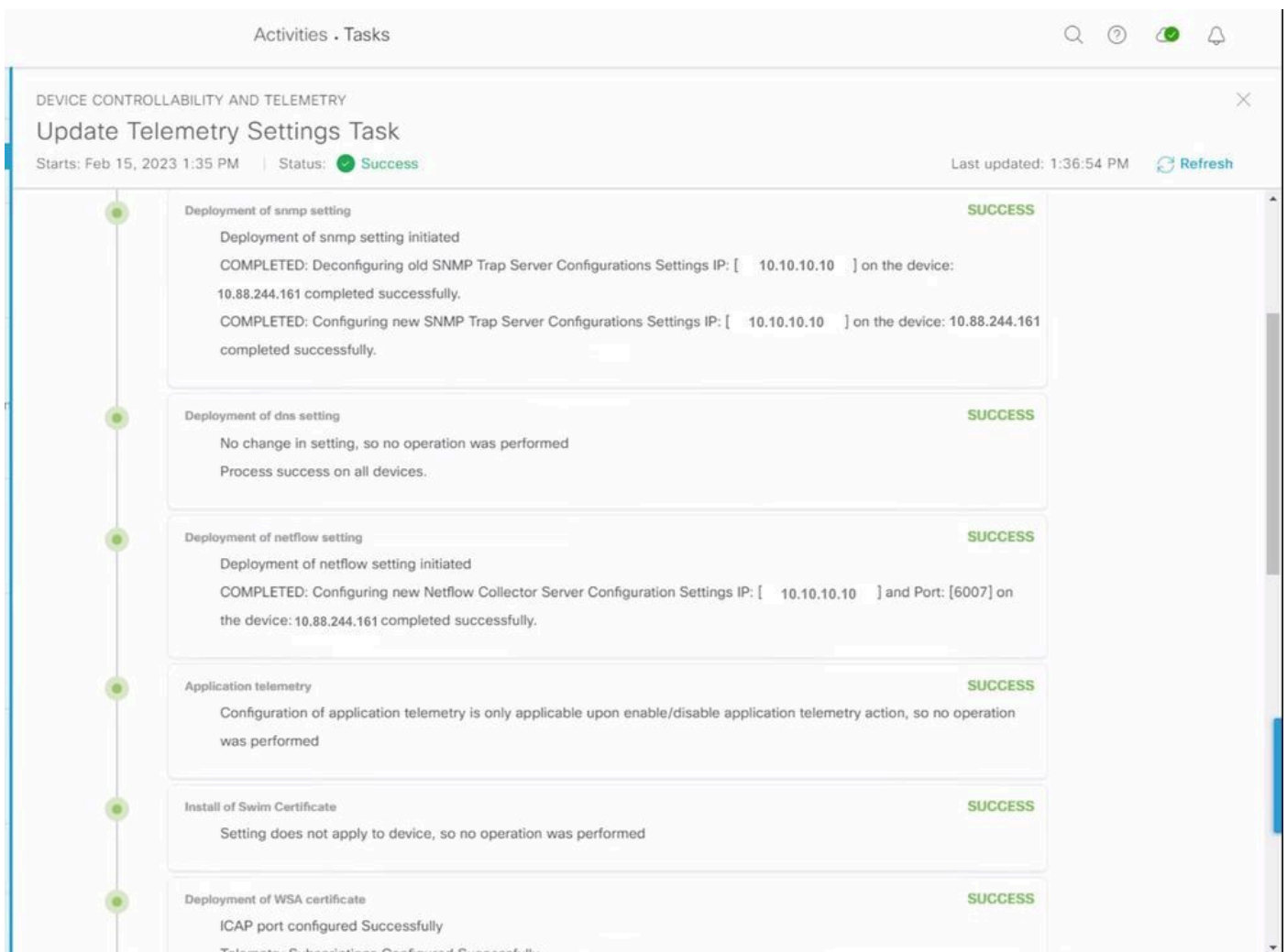
WLC GUI Netflow Config

9- Once you have the Flow monitor removed from the WLAN, you can now remove the Flow Monitor as described in step 5, and finally remove the Flow Exporter as described in step 4.



WLC GUI Netflow Config

10- Now it is time to resync the WLC in Cisco Catalyst Center inventory, and once it finishes syncing, you can start the Telemetry provisioning task. This time the task can be successful since there is no more flow exporter configured in the WLC:



Success Telemetry Provisioning Task



Note: All the steps described in the Solution can be performed via WLC CLI too, if preferred, without need of WLC GUI.

Validation

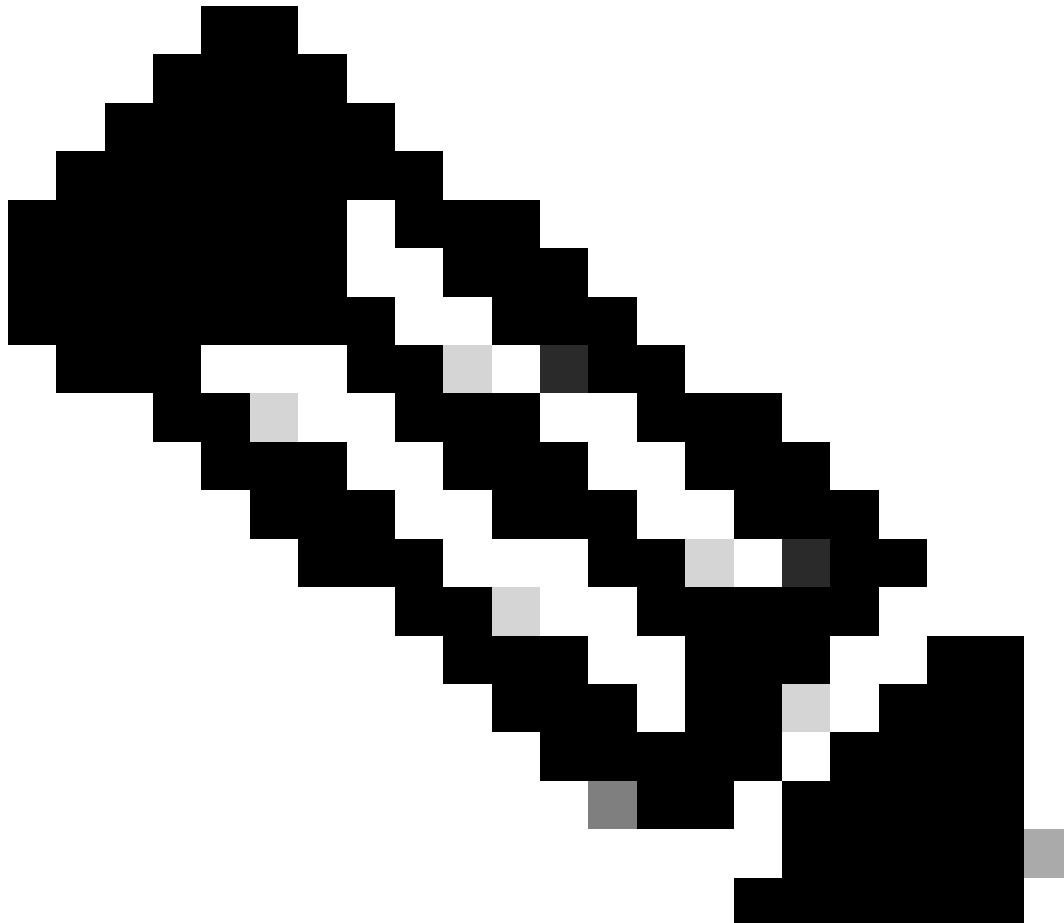
Once the telemetry task finishes successfully, you can validate using the WLC CLI commands for flow exporter and assurance. Also, by checking the Cisco Catalyst Center Assurance health page for the WLC and APs.

```
<#root>
```

```
(Cisco Controller) >
```

```
show flow exporter summary
```

```
Exporter-Name      Exporter-IP      Port
=====          =====          =====
```



Note: The Flow Exporter configured by Cisco Catalyst Center is hardcoded to be called dnacexporter.
