

Revised: February 13, 2025

# Cellular TLOC failing

## Problem

A cellular TLOC with color LTE is inactive.

## Conditions

- A Cisco IOS XE Catalyst SD-WAN device has more than one interface configured.
- The device has a mix of interface types - GigabitEthernet and cellular.
- The DHCP administrative distance (AD) configured for the GigabitEthernet interface or interfaces is 1. Note that 1 is the default value.

### Where to configure

If you are using a configuration group to configure the device, the DHCP administrative distance is configured in the Transport VPN feature in a Transport & Management profile.

If you are using feature templates to configure the device, the DHCP administrative distance is configured in the Cisco VPN feature template.

## Problem details

These conditions can cause this:

- The GigabitEthernet interface, using DHCP, has AD=1.
- The cellular interface, using IP Control Protocol (IPCP), has AD=254.

In this scenario, the cellular TLOC is not installed in the forwarding information base (FIB), so the cellular TLOC fails.

## Solutions

### **Solution: Configure a default route for the cellular interface**

Using a CLI add-on profile or CLI add-on template, for VPN 0, configure a default route explicitly for the cellular interface.

Example: `ip route 0.0.0.0 0.0.0.0 Cellular0/1/0`

### **Solution: Configure an administrative distance of 254 for the GigabitEthernet interface**

For the GigabitEthernet interface, configure an administrative distance of 254.

- Configuration groups method

If you are using configuration groups to configure devices, do this:

1. Open a Transport & Management profile.

2. Add or edit a Transport VPN feature.
3. In the **Route** section, add or edit an IPv4 static route configuration.
4. For the GigabitEthernet interface, configure the administrative distance as 254.

- Templates method

If you are using templates to configure devices, do this:

1. Add or edit the Cisco VPN feature template for the device.
2. In the **IPv4 Route** section, add an IPv4 route.
3. For the route, add a next hop.
4. For the next hop address, enter the GigabitEthernet interface details. Example: GigabitEthernet0/1/0
5. For the administrative distance, configure 254.