Configure TACACS+ for Device Administration of Cisco WLC

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Introduction

This document describes how to configure TACACS+ for device administration of Cisco Wireless LAN Controller (WLC) with Identity Service Engine (ISE).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Basic knowledge of Identity Service Engine (ISE)
- Basic knowledge of Cisco Wireless LAN Controller (WLC)

Components Used

The information in this document is based on these software and hardware versions:

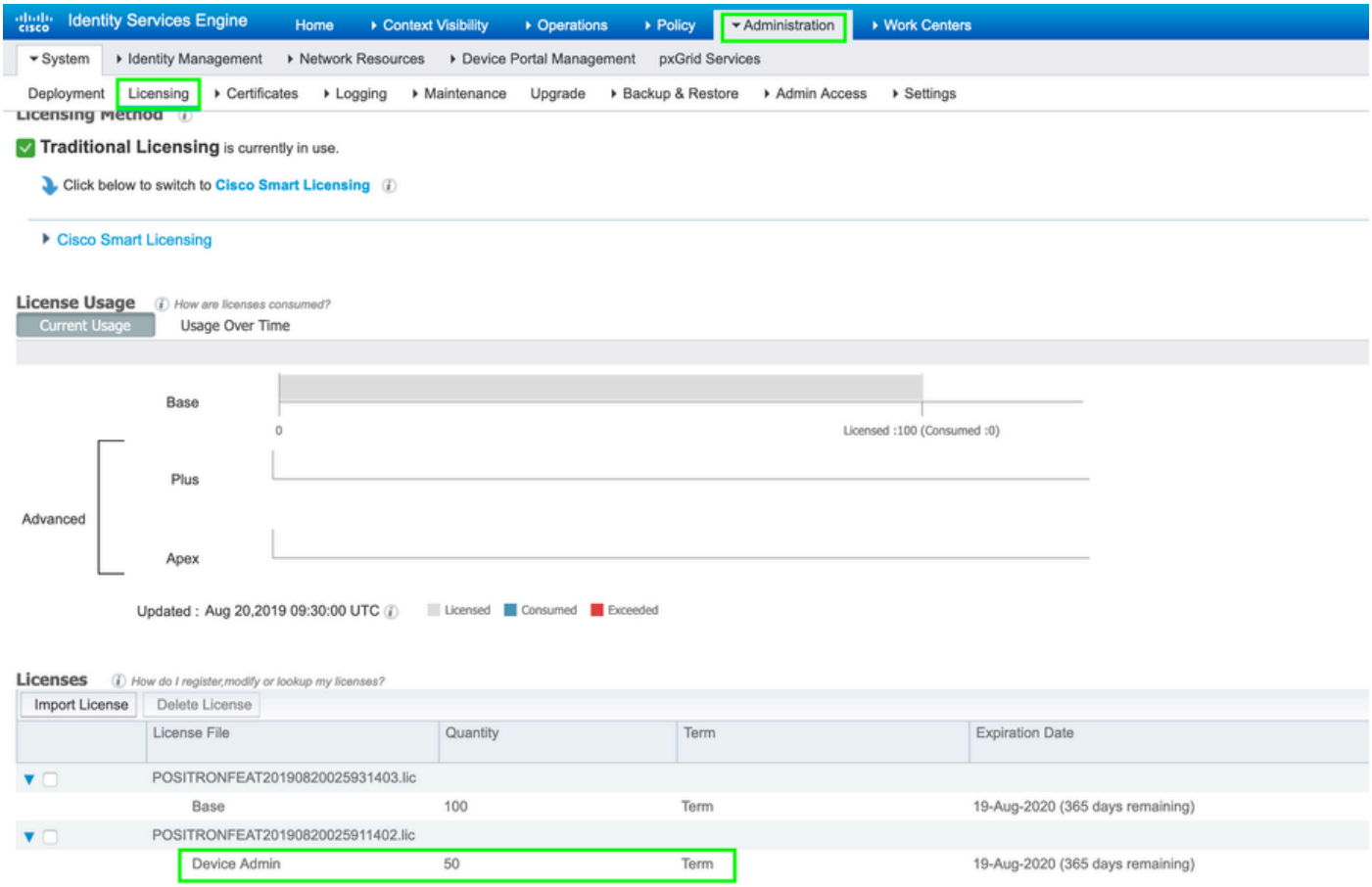
- Cisco Identity Service Engine 2.4
- Cisco Wireless LAN Controller 8.5.135

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.

Configuration

Step 1. Check Device Administration License.

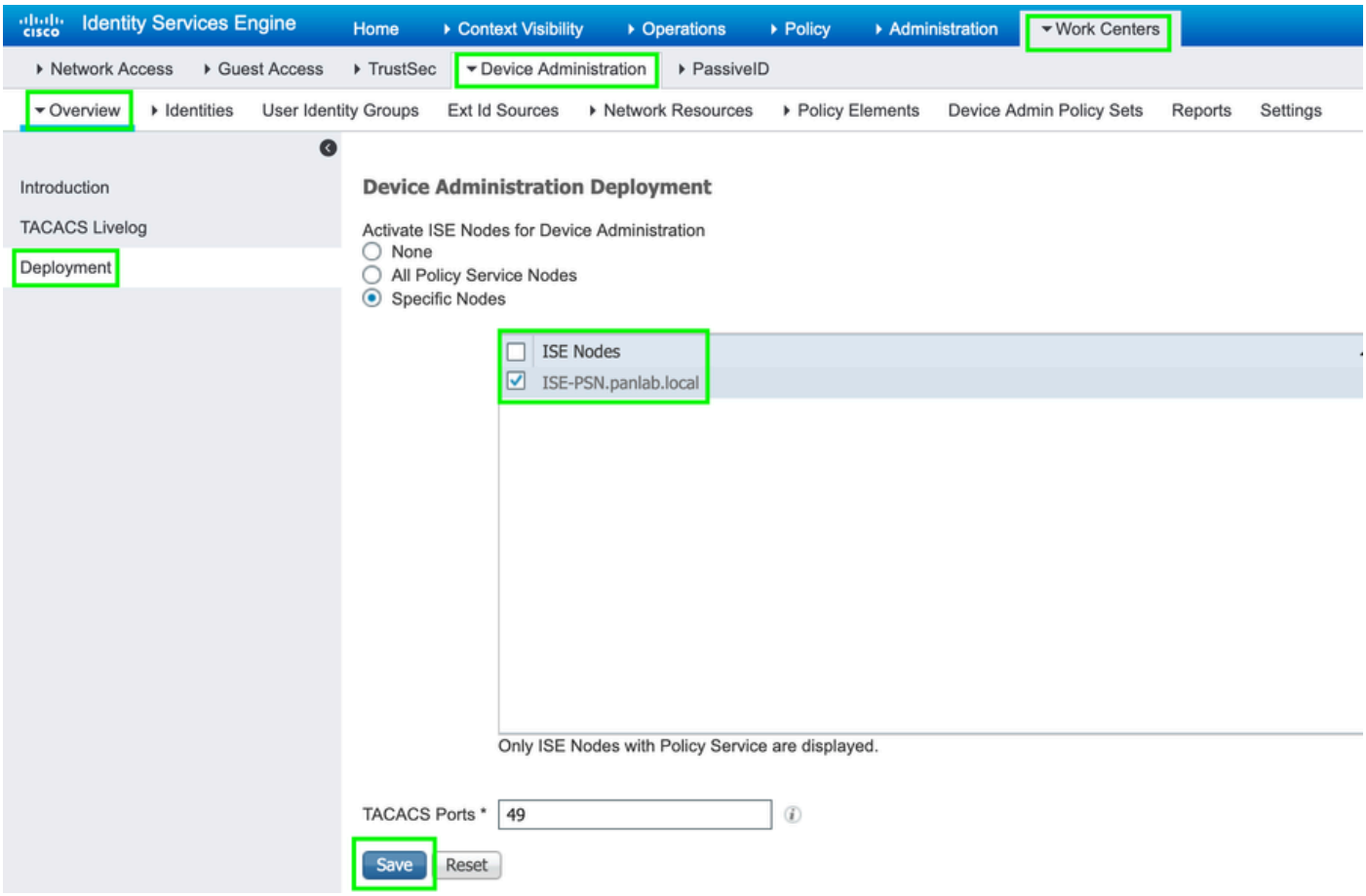
Navigate to **Administration > System > Licensing** tab and verify **Device Admin** license is installed, as shown in the image.



Note: Device admin license is required to use the TACACS+ feature on ISE.

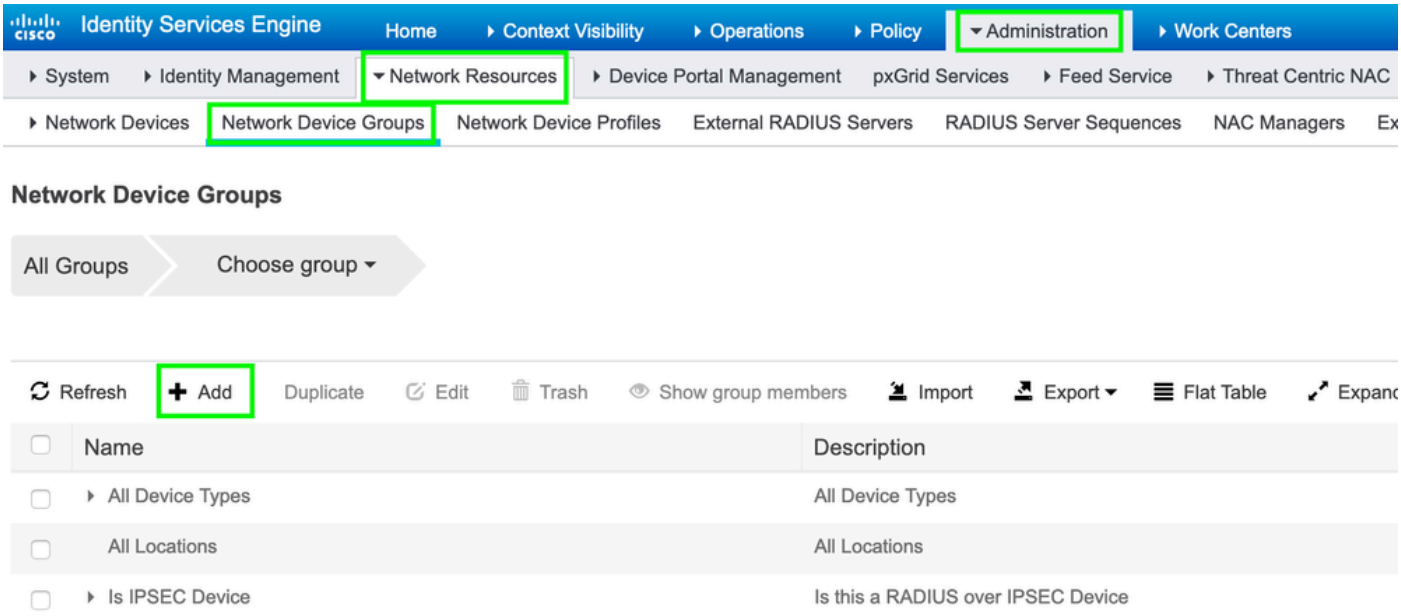
Step 2. Enable Device Administration on ISE PSN Nodes.

Navigate to **Work Centers > Device Administration > Overview**, click **Deployment** tab, select the **Specific PSN Node** radio button**.** Enable Device Administration on the ISE node by selecting the **checkbox** and click **Save**, as shown in the image:



Step 3. Create a Network Device Group.

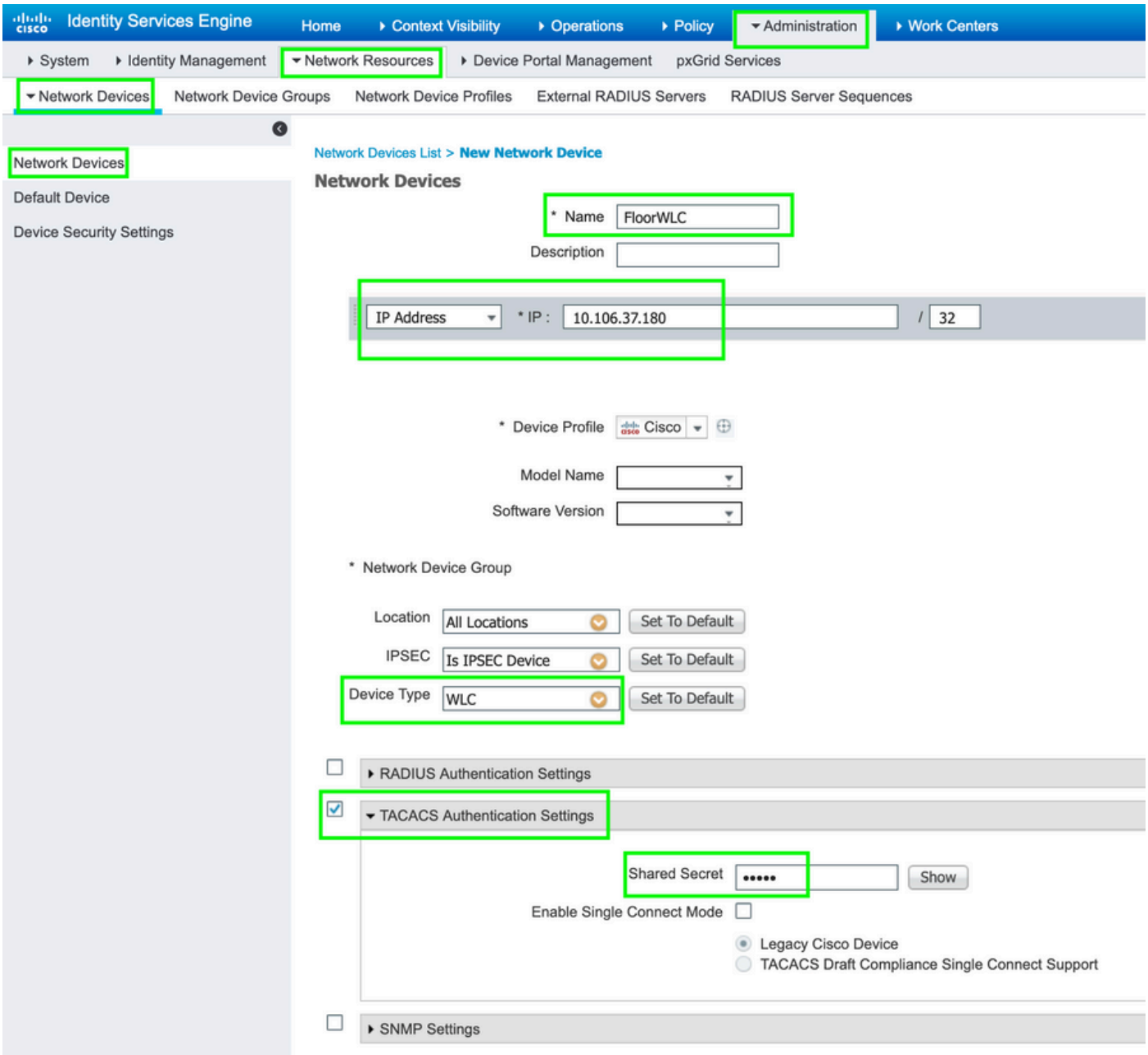
In order to add WLC as a network device on the ISE, navigate to **Administration > Network Resources > Network Device Groups > All Device Types**, create a new group for WLC, as shown in the image:





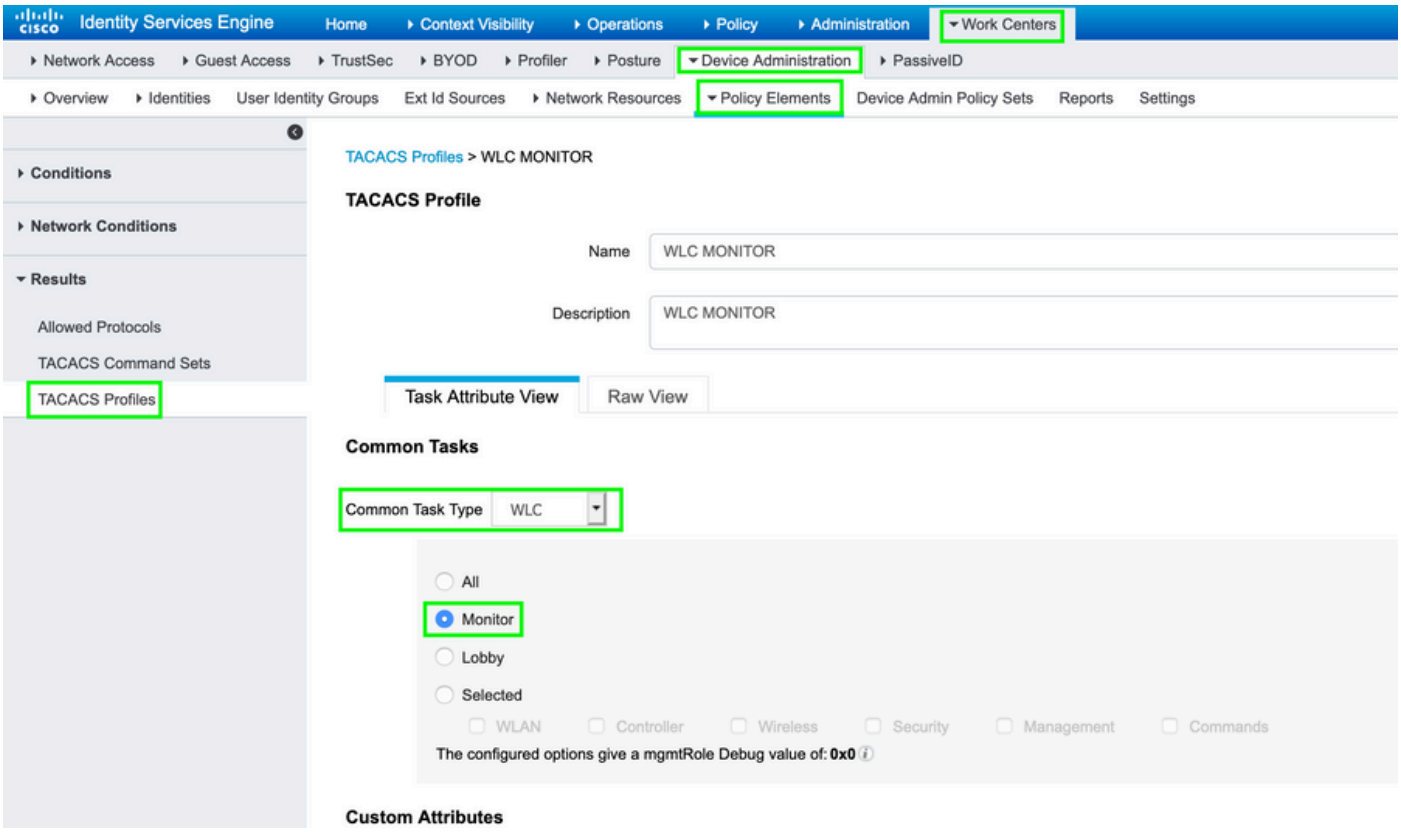
Step 4. Add WLC as a Network Device.

Navigate to **Work Centers > Device Administration >Network Resources > Network Devices**. Click **Add**, provide **Name**, I**P Address** and select the Device type as **WLC**, select **TACACS+ Authentication Settings** checkbox and provide the **Shared Secret** key, as shown in the image:

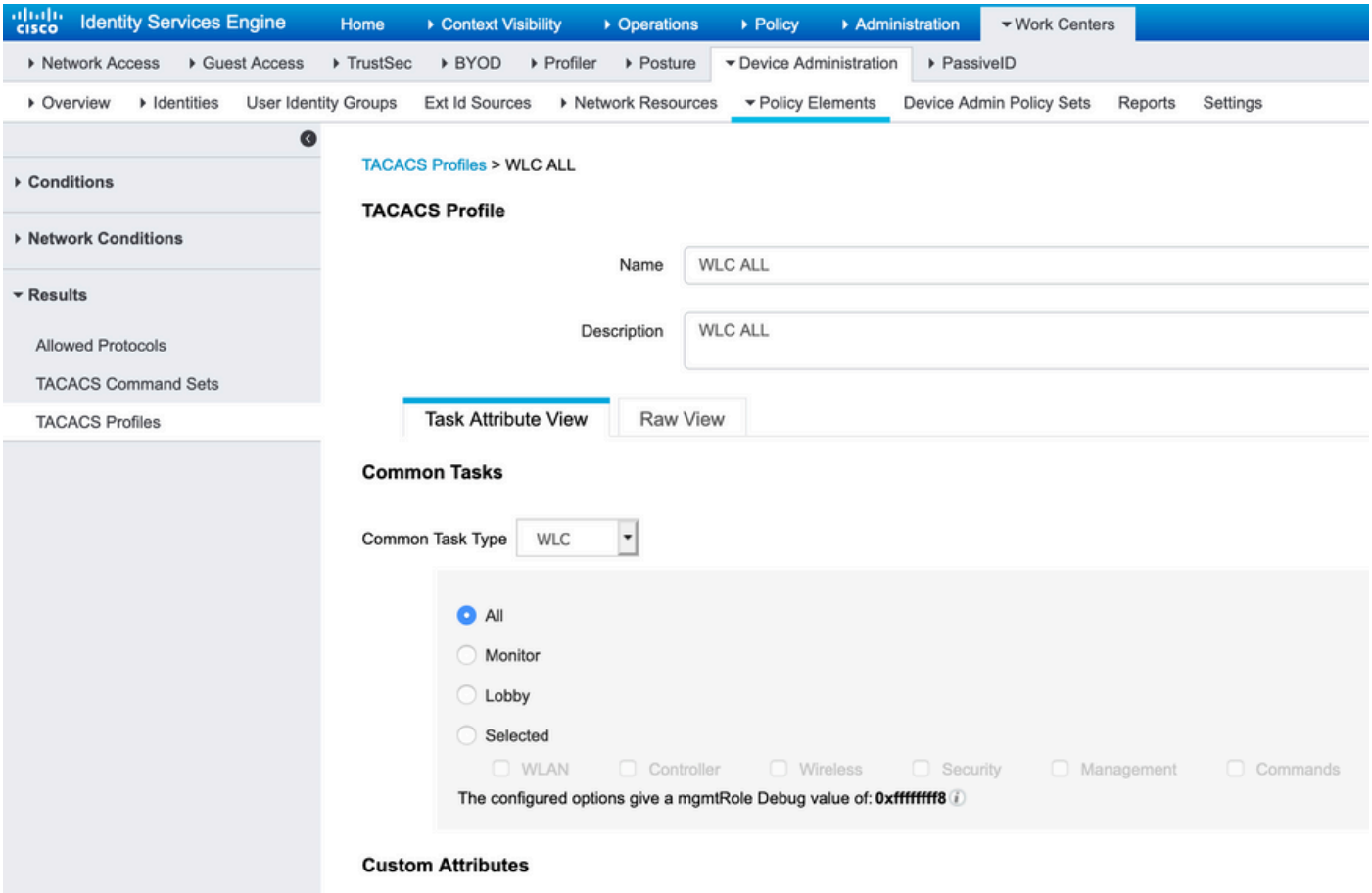


Step 5. Create a TACACS Profile for WLC.

Navigate to **Work Centers > Device Administration > Policy Elements > Results > TACACS Profiles.** Click **Add** and provide a **Name.** In the **Task attribute view** tab, select **WLC** for **Common Task Type.** There are default profiles present from which select **Monitor** to allow limited access to users, as shown in the image.

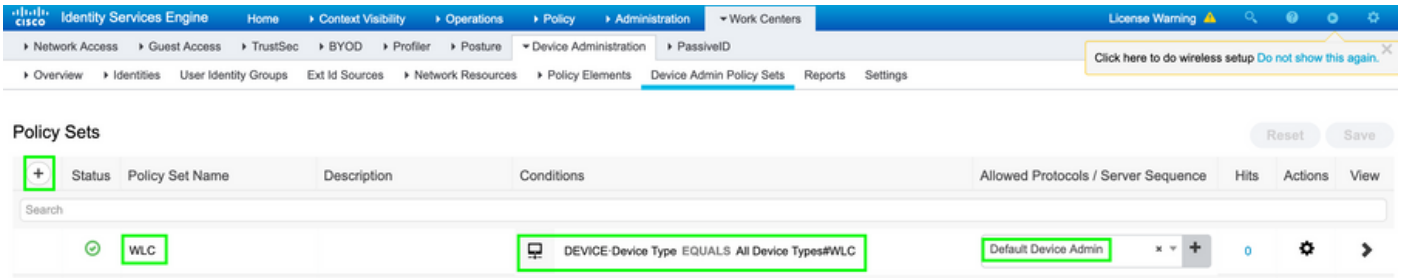


There is another default profile **All** which allows full access to the user as shown in the image.



Step 6. Create a Policy Set.

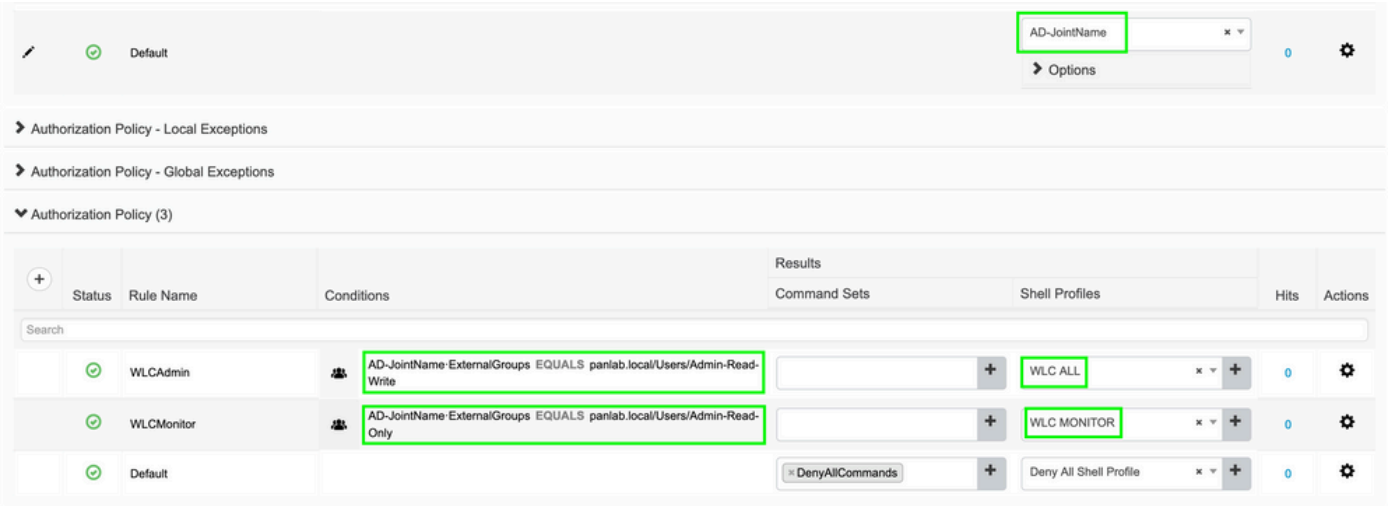
Navigate to **Work centers > Device administration > Device Admin Policy Sets.** Click **(+)** and give a name to the Policy Set. In the policy condition select **Device Type** as WLC, Allowed protocols can be **Default Device Admin**, as shown in the image.



Step 7. Create Authentication and Authorization Policies.

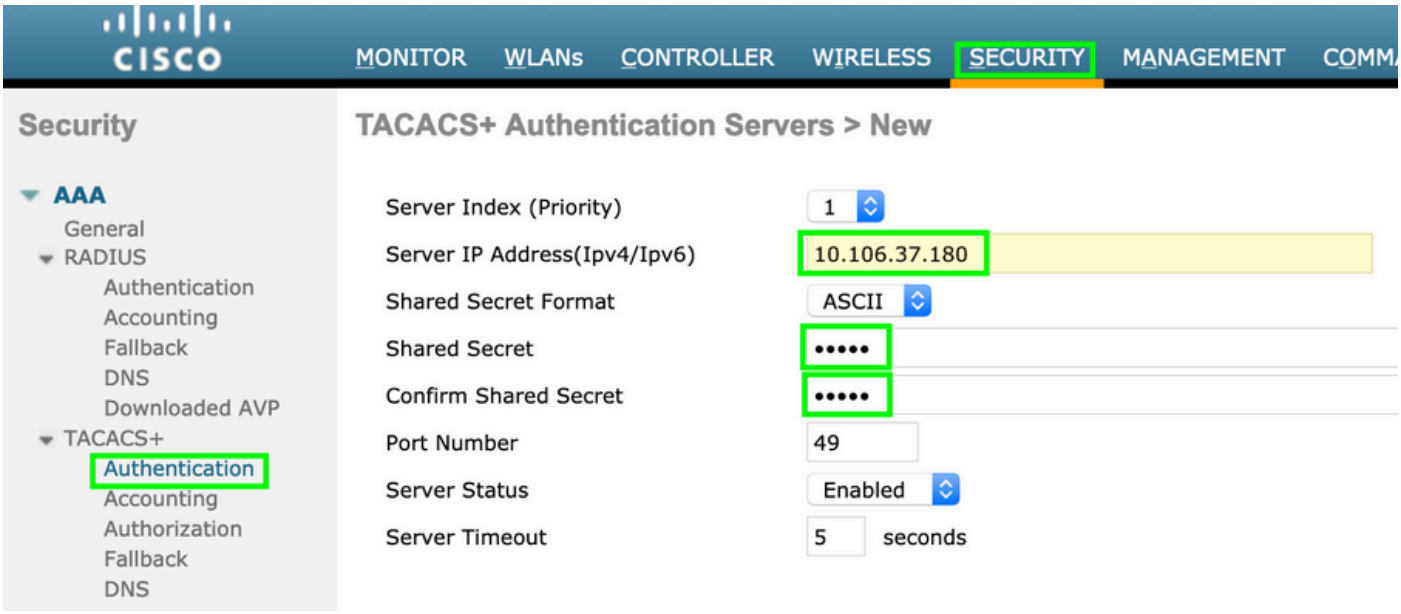
In this document, two sample groups **Admin-Read-Write** and **Admin-Read-Only** are configured on the Active directoryand one user inside each group **admin1**, **admin2** respectively. Active Directory is integrated with the ISE via a joinpoint named **AD-JointName.**

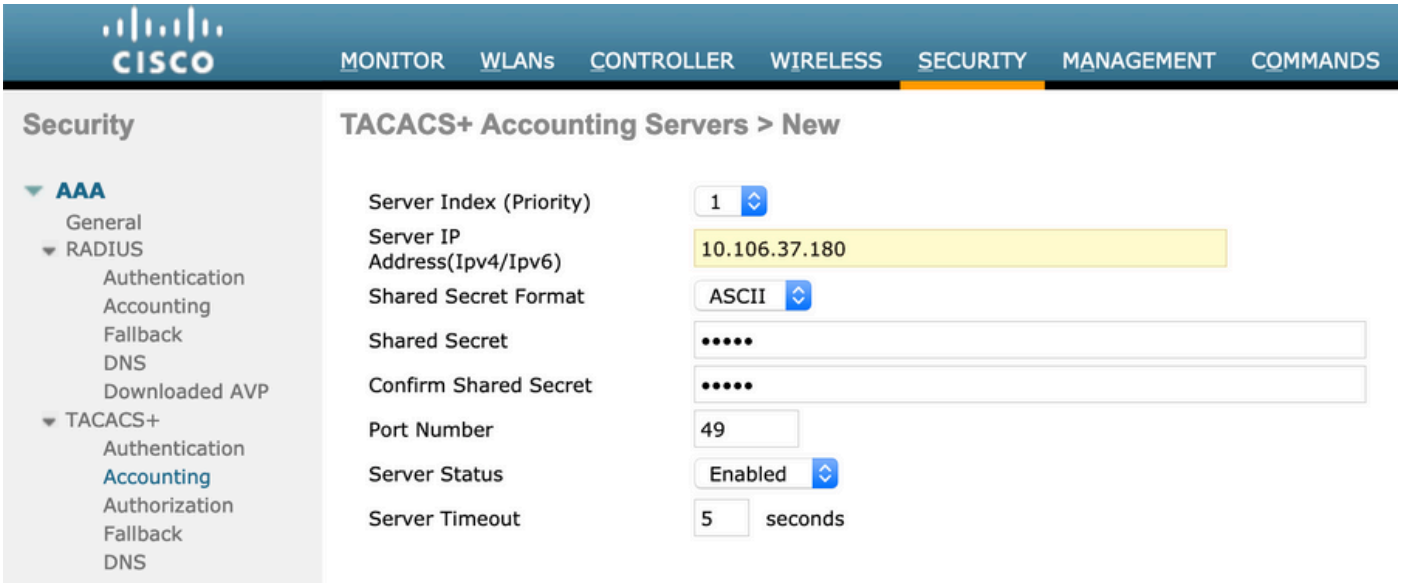
Create two authorization policies, as shown in the image:



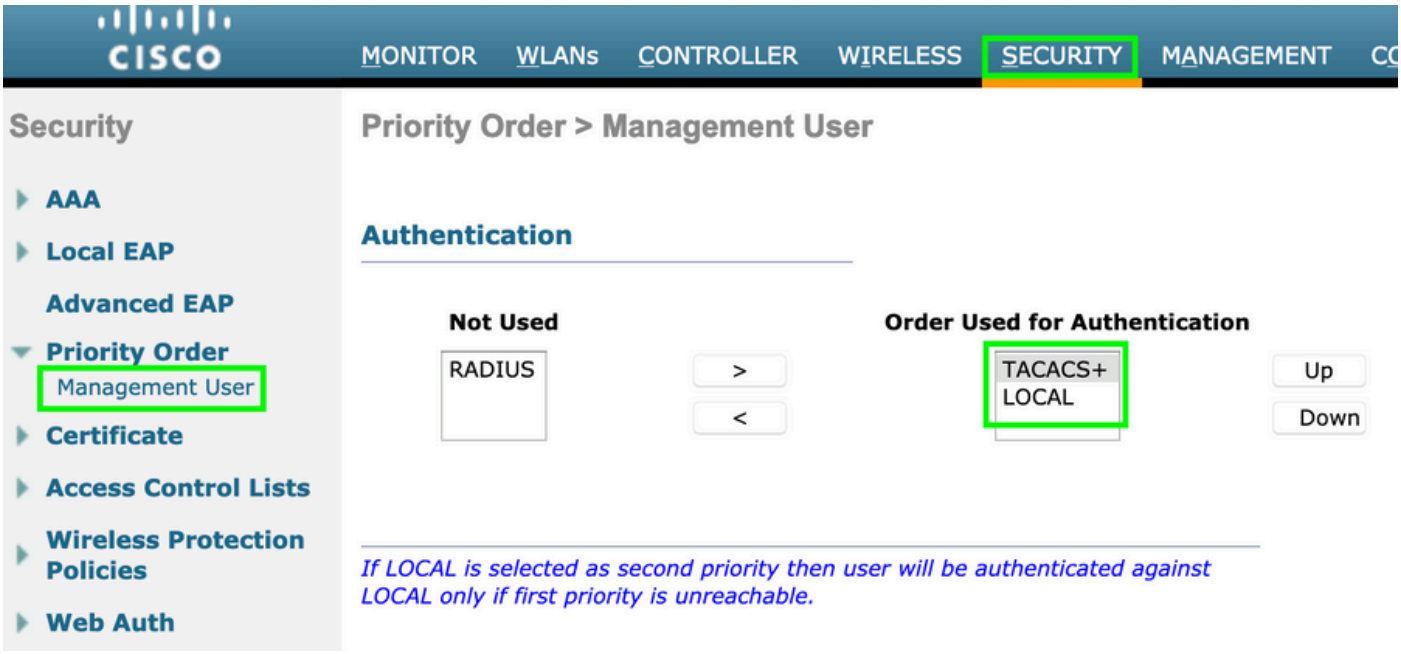
Step 8. Configure WLC for Device Administration.

Navigate to **Security > AAA > TACACS+** click **New** and add Authentication, Accounting server, as shown in the image.





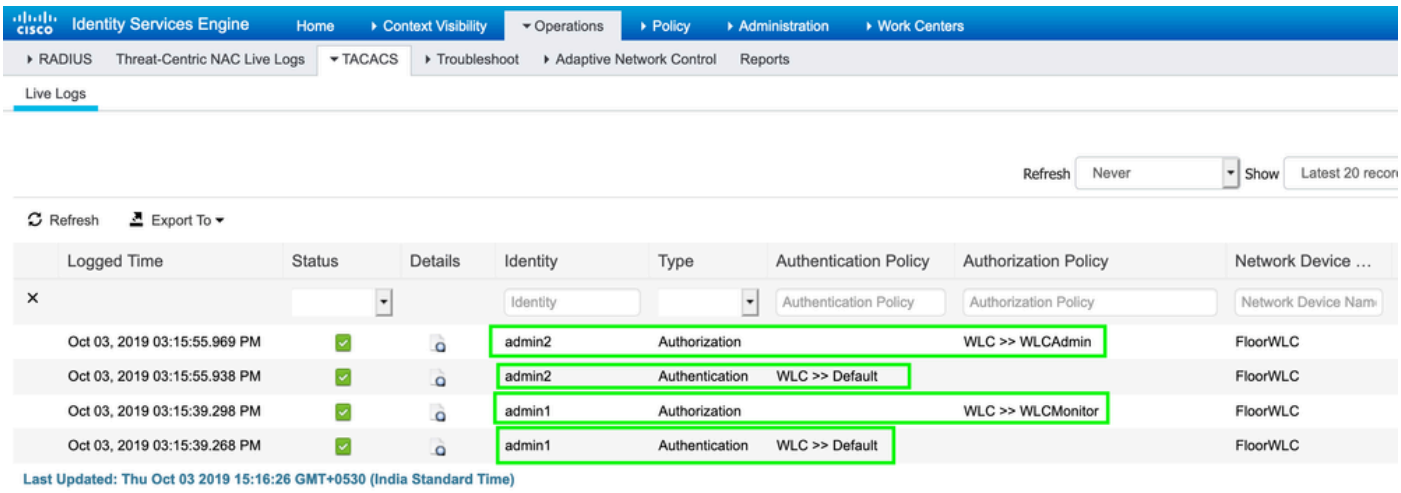
Change priority order and make TACACS+ on top and Local to bottom, as shown in the image:



Caution: Do not close the current WLC GUI session. Its recommended to open WLC GUI in different web-browser and check whether login with TACACS+ credentials works or not. If not, verify the configuration and connectivity to the ISE node on TCP port 49.

Verify

Navigate to **Operations > TACACS > Live logs** and monitor the **Live Logs**. Open WLC GUI and log in with Active Directory user credentials, as shown in the image



Troubleshoot

There is currently no specific troubleshooting information available for this configuration.