



# Lighting Deployment without Campus Network Core

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This chapter, which covers the implementation details for migrating the lighting network to a Production Network without a Campus Network core architecture as described in Section 3.1, System Topologies of the *Cisco Digital Building Cree Design Guide*, includes the following major topics:

- [Network Topology, page 5-1](#)
- [Wiring Closet Access Switch \(Cisco Catalyst 3850 Stack\), page 5-2](#)
- [Provisioning Light Fixtures using SmartCast Manager, page 5-3](#)
- [Implementing Data Center Applications, page 5-4](#)

## Network Topology

In this deployment, access switches are directly connected to data center via firewall as shown in [Figure 5-1](#).



## Configuring Management VLAN Interface

Configure the management VLAN 50 interface for the management traffic to go through the ASA firewall to the data center:

```
interface vlan 50
ip address 10.50.0.1 255.255.252.0
```

## Configuring Network Uplink to Firewall

In this deployment, follow the steps below to configure networking port channel on 3850 stack to connect the Cisco Catalyst 3850 switch stack to the ASA firewall, as shown in [Figure 5-1](#).

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**Step 1** Configure the Port Channel interface to ASA:

```
interface TenGigabitEthernet1/1/4
channel-group 2 mode active
interface TenGigabitEthernet1/1/4
channel-group 2 mode active
```

**Step 2** Configure the Port Channel as a trunk port:

```
interface Port-channel2
switchport trunk allowed vlan 50
switchport mode trunk
```

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Follow the configuration steps described in [Wiring Closet Access Switch \(Cisco Catalyst 3850 Stack\)](#), [page 4-10](#), to complete the Cisco Catalyst 3850 stack switch configuration for this deployment model.

## Provisioning Light Fixtures using SmartCast Manager

This section describes how to commission the light fixtures using the SCM. The light fixture can be commissioned by running the OneButton Setup, which groups the endpoints automatically.

The light fixtures can then be controlled via the SCM and the Wall Dimmer. Following are the steps to be performed to provision the light fixtures:

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- Step 1** Connect the SCM to an access port on the switch, in the same VLAN as the lighting network.
  - Step 2** Launch the SCM application.
  - Step 3** In the Network Interface selection, if prompted to select the network interface, choose the PoE network.
  - Step 4** Click **Continue**.
  - Step 5** If light fixtures are commissioned already from the initial installation, do a factory reset on them, and then allow them to be rediscovered for commissioning on a new area as per the requirement.
  - Step 6** Once the devices are listed on the SCM, perform OneButton Setup.
  - Step 7** Click **ALL**.
  - Step 8** Once OneButton Setup is complete, click **All Devices** under the **Settings** tab to verify that all devices in the lighting network are assigned to Occupancy Groups and Switch Groups.

- Step 9** Click **Controls** and change the dim level to verify that the Switch Group brightness changes when controlling it via the control screen. This verifies light fixture is provisioned and controllable by SCM.
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## Implementing Data Center Applications

### Configuring Firewall

In this deployment, follow the steps below to configure firewall networking to connect the Cisco Catalyst 3850 switch stack as shown in [Figure 5-1](#). The configuration of the firewall is same as described in [Configuring Firewall, page 5-4](#) in this deployment.

### Configuring Data Center Applications

Refer to [Configuring Data Center Applications, page 5-4](#), for the configure data center application as shown [Figure 5-1](#).