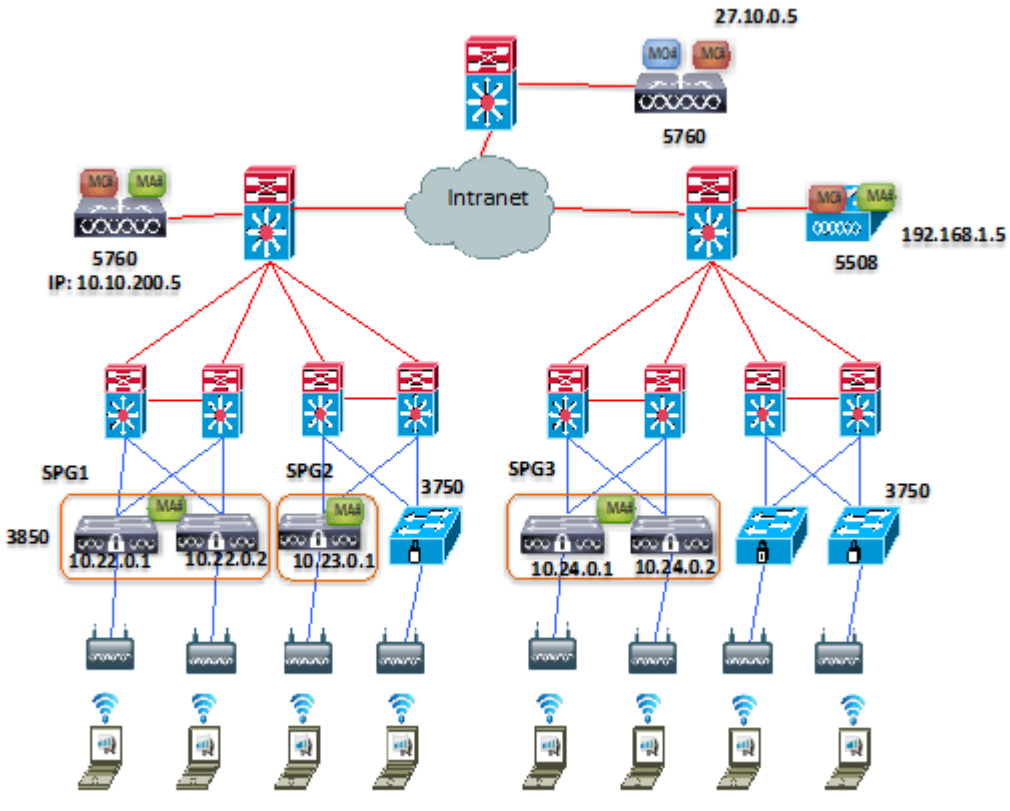
Mobility Design and Configuration

Mobility Design and Configuration: WLC5760, WLC5508, and Catalyst 3850 in Hybrid Mode

The following section outlines the Mobility configuration for Hybrid deployment where you have a 3850 switch acting as a Mobility Agent and 3750 switch acting as regular L2 switch.

Figure 5-1 Mobility Design and Configuration: WLC5760, WLC5508, and Catalyst 3850 in Hybrid Mode



Mobility Configuration on WLC5760-Mobility Controller-Mobility Agent

```
wireless mobility controller
wireless mobility controller peer-group SPG1
wireless mobility controller peer-group SPG1 member ip 10.22.0.1 public-ip 10.22.0.1
wireless mobility controller peer-group SPG1 member ip 10.22.0.2 public-ip 10.22.0.2
wireless mobility controller peer-group SPG2
wireless mobility controller peer-group SPG2 member ip 10.23.0.1 public-ip 10.23.0.1
wireless mobility group member ip 10.27.0.5 public-ip 10.27.0.5
wireless mobility group member ip 192.168.1.5 public-ip 192.168.1.5
wireless mobility dscp 46
wireless mobility oracle ip 10.27.0.5
wireless management interface Vlan21
```

Mobility Configuration on WLC5760-Mobility Controller-Mobility Oracle

```
wireless mobility group member ip 10.10.200.5 public-ip 10.10.200.5
wireless mobility group member ip 192.168.1.5 public-ip 192.168.1.5
wireless mobility oracle
wireless management interface Vlan27
```

Mobility Configuration on WLC5508-Mobility Controller-Mobility Agent

```
config mobility new-architecture enable
config mobility mobility-oracle10.27.0.5
config mobility group member add 10.10.200.5
config mobility group member add 10.27.0.5
config mobility switchPeerGroup create SPG3
config mobility switchPeerGroup member add 10.24.0.1 SPG3
config mobility switchPeerGroup member add 10.24.0.2 SPG3
config mobility dtls-mode enable
config mobility dscp 46
```

Mobility Configuration on Catalyst 3850-Mobility Agent 1

```
wireless mobility controller ip 10.10.200.5 public-ip 10.10.200.5
wireless management interface Vlan22
```

Mobility Configuration on Catalyst 3850-Mobility Agent 2

```
wireless mobility controller ip 10.10.200.5 public-ip 10.10.200.5
wireless management interface Vlan22
```

Mobility Configuration on Catalyst 3850-Mobility Agent 3

```
wireless mobility controller ip 10.10.200.5 public-ip 10.10.200.5
wireless management interface Vlan23
```

Mobility Configuration on Catalyst 3850-Mobility Agent 4

```
wireless mobility controller ip 192.168.1.5 public-ip 192.168.1.5
wireless management interface Vlan24
```

Mobility Configuration on Catalyst 3850-Mobility Agent 5

```
wireless mobility controller ip 192.168.1.5 public-ip 192.168.1.5
wireless management interface Vlan24
```

Configuring ClientLink (Beamforming)

Cisco ClientLink uses advanced signal processing techniques and multiple transmit paths to optimize the signal received by 802.11 a/g/n clients in the downlink direction without feedback. By default, ClientLink is disabled. You can see ClientLink general status through the show network command: **ap dot11** {24ghz | 5ghz}.

You can enable ClientLink for all APs, with the global configuration command ap dot11 {24ghz | 5ghz} beamforming. Use the "no" form of the command to disable ClientLink:

```
ap dot11 5ghz shutdown
ap dot11 5ghz beamforming
no ap dot11 5ghz shutdown
```

These commands enable ClientLink globally; then, it disables ClientLink on a specific AP radio:

```
ap dot11 5ghz shutdown
ap dot11 5ghz beamforming
no ap dot11 5ghz shutdown
ap name 3602a dot11 5ghz shutdown
ap name 3602a no dot11 5ghz beamforming
ap name 3602a no dot11 5ghz shutdown
```

Show commands:

```
show ap dot11 5ghz network | include Beamforming
Legacy Tx Beamforming setting : Enabled
show ap name 3602a config dot11 5ghz | include Beamforming
Legacy Tx Beamforming Setting: Disabled
```