



# Configuring and Validating Fluidmax Fast Failover

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## Configuring and Validating Fluidmax Fast Failover

Before configuring the Fluidmax fast failover, use the following pre-conditions:

1. Primary and backup primary node should have same configuration, it includes the same channel's parameters (frequency, channel width, and so on.) as well as the Fluidmax parameters like role and cluster ID.
2. Fluidmax redundancy provides resilience for node-failure type of faults such as power loss or catastrophic hardware fault on the primary node.
3. Enable Fluidmax fast failover using Fluidmax CLI commands on all devices except for the vehicle devices.



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**Note** Catalyst IW9167E supports both Gateway + MP (Mesh Point) – MP (with same tower ID) and ME (Mesh End) – ME fast failover.

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## Configuring Fluidmax Fast Failover from CLI

To configure Fluidmax fast failover, use the following CLI command:

```
Device# configure modeconfig mode meshpoint
```

Modeconfig – Configure current operating mode of device. Mode could be mesh end(ME), mesh point(MP), or global gateway (L3).

```
Device# configure mpls fastfail status [enable | disable]
```

Mpls - Configure mpls data frame packets for specified device.

Fastfail - Configure the fast failover feature status (enable or disable).

```
Device# configure mpls fastfail timeout <0 - 65535>
```

Fastfail timeout - Set the fast failover timeout for device failure detection.

```
Device# configure dot11Radio [1|2] mode fluidmax [primary|secondary]
```

Fluidmax - Set the interface in Fluidmax mode.

Primary | Secondary - Fluidmax role for the device, either primary or secondary.

```
Device# configure dot11Radio [1|2] mode fluidmax cluster id fluidmesh
```

Cluster id - Set Fluidmax Cluster ID assigned to the interface.

```
Device# configure dot11Radio [1|2] mode fluidmax tower [enable|disable]
```

Tower – Enable or disable Fluidmax Tower ID for specified interface.




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**Note** Radio interface setting must be same on both ME point to Multi point primaries.

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## Validating Fluidmax Fast Failover from CLI

To validate Fluidmax fast failover, use the following show commands:

```
Device# show mpls config
```

```
Device# show dot11Radio <interface> fluidmax (check Fluidmax Primary ID and working state)
```

Example:

```
Device# show mpls config
```

```
layer 2
```

```
unicast-fflood
```

```
arp-unicast:
```

```
reduce-broadcast:
```

```
cluster ID
```

```
MPLS fast failover: enabled
```

```
Node failover timeout: 100 ms
```

```
.....
```

```
MPLS tunnels:
```

```
Idp_id 381877266 debug 0 auto_pw 1
```

```
Local_gw 5.21.201.116 global_gw 0.0.0.0 pwlist {}
```