

Configure and Validate Fast Failover

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Overview of Fast Failover

Fast failover is a specific type of failover configuration, where the system monitors server health and can quickly switch over when needed.

Fast Failover mechanism:

- Provides hardware redundancy and carrier-grade availability within URWB-based networks.
- In case of hardware failure, Fast Failover allows network to recover again within:
  - less than 30 seconds (varies as per network size) when Fluidmax is used.
  - less than 500 milliseconds when Fluidity is used.

Note Fast Failover is included in all the Network Licenses

Configure and Validate Fast Failover

Note Configure and validate fast failover is applicable for both the Fluidmax and Fluidity modes.

Before you configure the fast failover, use the following pre-conditions:

1. Ensure that both the primary and the backup primary node should have same configuration. This includes the same channel's parameters: frequency, channel width, and mode. If Fluidmax is enabled, ensure that the Cluster ID is the same for both nodes.

2. Enable fast failover on all devices in the network.



Note Fluidmax Fast failover is supported only on MP to MP or ME to ME with Ethernet backhaul.

Configure Fast Failover from CLI

Use this command to configure fast failover.

```
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.

Use this command to set the preempt delay.

```
Device# configure mpls preempt-delay <0- 65535>
```

By default the preemption delay time is 70 seconds. During this period, the primary device actively gathers updates from the secondary device. This allows it to fully understand the network's current preemption delay status.



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

Validate Fast Failover from CLI

Use this command to validate fast failover.

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

Example:

```
Device# show mpls config
layer 2
unicast-fllod
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 {}
```