



## BFD - VRF Support

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The BFD - VRF Support feature enables Bidirectional Forwarding Detection (BFD) support for Virtual Routing and Forwarding (VRF) on Provider Edge (PE) and Customer Edge (CE) devices to provide fast detection of routing protocol failures between the devices.

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## Prerequisites for BFD - VRF Support

All Bidirectional Forwarding Detection (BFD) clients must be Virtual Routing and Forwarding (VRF)-aware.

## Information About BFD - VRF Support

### Overview of BFD - VRF Support

The BFD - VRF Support feature enables Bidirectional Forwarding Detection (BFD) support for Virtual Routing and Forwarding (VRF) on Provider Edge (PE) and Customer Edge (CE) devices to provide fast detection of routing protocol failures between the devices.

A BFD client establishes a Virtual Private Networking (VPN) session with devices that have BFD configured on them before requesting for session monitoring. However, there are no route lookups to determine whether a BFD neighbor is connected to the same VPN session or a different one. BFD relies on its client to get information about the VPN session to monitor the associated neighbor device. All information about VPN sessions is used to forward BFD control packets to the appropriate VPN through Cisco Express Forwarding (CEF).

## Feature Information for BFD - VRF Support

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to [www.cisco.com/go/cfn](http://www.cisco.com/go/cfn). An account on Cisco.com is not required.

**Table 1: Feature Information for BFD - VRF Support**

Feature Name	Releases	Feature Information
BFD - VRF Support	Cisco IOS XE Everest 16.6.2	The BFD - VRF Support feature enables BFD support for VRFs on PE and CE devices to provide fast detection of routing protocol failures between the devices.  In Cisco IOS XE Everest 16.6.2, this feature was implemented on Cisco Catalyst 9400 Series Switches.