

This document describes the IPFix configuration options supported by the Advanced Features units. IPFix must be configured using CLI commands. Refer to the Advanced Features CLI Guide for parameter defaults and specific details.

Connect to the Advanced Features unit. A connection to the unit may be established using two options:

Directly connected to the Console Interface to COM Port using Putty/Serial connection.

Connected via the IP Management Interface using Putty/SSH connection.

1. Press the Return key.
2. Enter enable.
3. Enter configure terminal.

## Enable IPFix

When IPFix is enabled, 128 flows are automatically reserved.

```
Switch> enable
Switch# configure terminal
Switch(config)# ipfix enable
```

## Recorder

```
Switch> enable
Switch# configure terminal
Switch(config)# ipfix recorder recordername
```

## Collect

```
Switch(config-ipfix-recorder-recordername)# collect counter
Switch(config-ipfix-recorder-recordername)# collect flow
Switch(config-ipfix-recorder-recordername)# collect timestamp
Switch(config-ipfix-recorder-recordername)# collect ttl
```

## Description

```
Switch(config-ipfix-recorder-recordername)# description
```

## Do

```
Switch(config-ipfix-recorder-recordername)# do boot
Switch(config-ipfix-recorder-recordername)# do cd
Switch(config-ipfix-recorder-recordername)# do clear
Switch(config-ipfix-recorder-recordername)# do configure
```

```
Switch(config-ipfix-recorder-recordername)# do copy
Switch(config-ipfix-recorder-recordername)# do debug
Switch(config-ipfix-recorder-recordername)# do delete
Switch(config-ipfix-recorder-recordername)# do dir
Switch(config-ipfix-recorder-recordername)# do disable
```

```
Switch(config-ipfix-recorder-recordername)# do enable
Switch(config-ipfix-recorder-recordername)# do logging
Switch(config-ipfix-recorder-recordername)# do logout
Switch(config-ipfix-recorder-recordername)# do ls
Switch(config-ipfix-recorder-recordername)# do md5sum
Switch(config-ipfix-recorder-recordername)# do mkdir
Switch(config-ipfix-recorder-recordername)# do more
Switch(config-ipfix-recorder-recordername)# do no
Switch(config-ipfix-recorder-recordername)# do ping
Switch(config-ipfix-recorder-recordername)# do pwd
Switch(config-ipfix-recorder-recordername)# do re-activate
Switch(config-ipfix-recorder-recordername)# do reboot
Switch(config-ipfix-recorder-recordername)# do reload
Switch(config-ipfix-recorder-recordername)# do rename
Switch(config-ipfix-recorder-recordername)# do reset
Switch(config-ipfix-recorder-recordername)# do rmdir
Switch(config-ipfix-recorder-recordername)# do set
Switch(config-ipfix-recorder-recordername)# do show
Switch(config-ipfix-recorder-recordername)# do source
Switch(config-ipfix-recorder-recordername)# do ssh
Switch(config-ipfix-recorder-recordername)# do start
Switch(config-ipfix-recorder-recordername)# do telnet
Switch(config-ipfix-recorder-recordername)# do terminal
Switch(config-ipfix-recorder-recordername)# do traceroute
Switch(config-ipfix-recorder-recordername)# do write
```

## End

```
Switch(config-ipfix-recorder-recordername)# end
```

## Exit

```
Switch(config-ipfix-recorder-recordername)# exit
```

## Help

```
Switch(config-ipfix-recorder-recordername)# help
```

## Match

```
Switch(config-ipfix-recorder-recordername)# match cos
Switch(config-ipfix-recorder-recordername)# match flow
Switch(config-ipfix-recorder-recordername)# match interface
Switch(config-ipfix-recorder-recordername)# match ipv4
Switch(config-ipfix-recorder-recordername)# match ipv6
```

```
Switch(config-ipfix-recorder-recordername)# match mac
Switch(config-ipfix-recorder-recordername)# match packet
Switch(config-ipfix-recorder-recordername)# match transport
Switch(config-ipfix-recorder-recordername)# match vlan
Switch(config-ipfix-recorder-recordername)# match vxlan-vni
Switch(config-ipfix-recorder-recordername)# match nvgre-key
```

### No

```
Switch(config-ipfix-recorder-recordername)# no collect
Switch(config-ipfix-recorder-recordername)# no description
Switch(config-ipfix-recorder-recordername)# no match
Switch(config-ipfix-recorder-recordername)# no tunnel-aware
```

### Quit

```
Switch(config-ipfix-recorder-recordername)# quit
```

### Show

```
Switch(config-ipfix-recorder-recordername)# show history
Switch(config-ipfix-recorder-recordername)# show running-config
Switch(config-ipfix-recorder-recordername)# show this
```

### Tunnel-Aware

```
Switch(config-ipfix-recorder-recordername)# tunnel-aware inner-outer-merge
```

## Exporter

```
Switch> enable
Switch# configure terminal
Switch(config)# ipfix exporter exportername
```

### Description

```
Switch(config-ipfix-exporter-exportername)# description
```

### Destination

```
Switch(config-ipfix-exporter-exportername)# destination mgmt-if ipv4 xxx.xxx.xxx.xxx
```

### Do

```
Switch(config-ipfix-exporter-exportername)# do boot
Switch(config-ipfix-exporter-exportername)# do cd
Switch(config-ipfix-exporter-exportername)# do clear
Switch(config-ipfix-exporter-exportername)# do configure
Switch(config-ipfix-exporter-exportername)# do copy
Switch(config-ipfix-exporter-exportername)# do debug
Switch(config-ipfix-exporter-exportername)# do delete
```

```
Switch(config-ipfix-exporter-exportername)# do dir
Switch(config-ipfix-exporter-exportername)# do disable
Switch(config-ipfix-exporter-exportername)# do enable
Switch(config-ipfix-exporter-exportername)# do logging
Switch(config-ipfix-exporter-exportername)# do logout
Switch(config-ipfix-exporter-exportername)# do ls
Switch(config-ipfix-exporter-exportername)# do md5sum
Switch(config-ipfix-exporter-exportername)# do mkdir
Switch(config-ipfix-exporter-exportername)# do more
Switch(config-ipfix-exporter-exportername)# do no
Switch(config-ipfix-exporter-exportername)# do ping
Switch(config-ipfix-exporter-exportername)# do pwd
Switch(config-ipfix-exporter-exportername)# do re-activate
Switch(config-ipfix-exporter-exportername)# do reboot
Switch(config-ipfix-exporter-exportername)# do reload
Switch(config-ipfix-exporter-exportername)# do rename
Switch(config-ipfix-exporter-exportername)# do reset
Switch(config-ipfix-exporter-exportername)# do rmdir
Switch(config-ipfix-exporter-exportername)# do set
Switch(config-ipfix-exporter-exportername)# do show
Switch(config-ipfix-exporter-exportername)# do source
Switch(config-ipfix-exporter-exportername)# do ssh
Switch(config-ipfix-exporter-exportername)# do start
Switch(config-ipfix-exporter-exportername)# do telnet
Switch(config-ipfix-exporter-exportername)# do terminal
Switch(config-ipfix-exporter-exportername)# do traceroute
Switch(config-ipfix-exporter-exportername)# do write
```

## Domain-ID

```
Switch(config-ipfix-exporter-exportername)# domain-id
```

## DSCP

```
Switch(config-ipfix-exporter-exportername)# dscp
```

## End

```
Switch(config-ipfix-exporter-exportername)# end
```

## Event

```
Switch(config-ipfix-exporter-exportername)# event flow start
```

```
Switch(config-ipfix-exporter-exportername)# event flow end
```

## Exit

```
Switch(config-ipfix-exporter-exportername)# exit
```

## Flow

```
Switch(config-ipfix-exporter-exportername)# flow data flush
```

```
Switch(config-ipfix-exporter-exportername)# flow data timeout
```

## Help

```
Switch(config-ipfix-exporter-exportername)# help
```

## No

```
Switch(config-ipfix-exporter-exportername)# no description
Switch(config-ipfix-exporter-exportername)# no destination
Switch(config-ipfix-exporter-exportername)# no domain-id
Switch(config-ipfix-exporter-exportername)# no dscp
Switch(config-ipfix-exporter-exportername)# no event
Switch(config-ipfix-exporter-exportername)# no flow
Switch(config-ipfix-exporter-exportername)# no template
Switch(config-ipfix-exporter-exportername)# no transport
Switch(config-ipfix-exporter-exportername)# no ttl
```

## Quit

```
Switch(config-ipfix-exporter-exportername)# quit
```

## Show

```
Switch(config-ipfix-exporter-exportername)# show history
Switch(config-ipfix-exporter-exportername)# show running-config
```

## Template

```
Switch(config-ipfix-exporter-exportername)# template data timeout
```

## Transport

```
Switch(config-ipfix-exporter-exportername)# transport protocol udp port
```

## TTL

```
Switch(config-ipfix-exporter-exportername)# ttl
```

## Sampler

```
Switch> enable
Switch# configure terminal
Switch(config)# ipfix sampler samplername
```

## 1 Out Of

```
Switch(config-ipfix-sampler-samplername)# 1 out of
```

## Description

```
Switch(config-ipfix-sampler-samplername)# description
```

## Do

```
Switch(config-ipfix-sampler-samplername)# do boot
Switch(config-ipfix-sampler-samplername)# do cd
Switch(config-ipfix-sampler-samplername)# do clear
Switch(config-ipfix-sampler-samplername)# do configure
Switch(config-ipfix-sampler-samplername)# do copy
```

```
Switch(config-ipfix-sampler-samplername)# do debug
Switch(config-ipfix-sampler-samplername)# do delete
Switch(config-ipfix-sampler-samplername)# do dir
Switch(config-ipfix-sampler-samplername)# do disable
Switch(config-ipfix-sampler-samplername)# do enable
Switch(config-ipfix-sampler-samplername)# do logging
Switch(config-ipfix-sampler-samplername)# do logout
Switch(config-ipfix-sampler-samplername)# do ls
Switch(config-ipfix-sampler-samplername)# do md5sum
Switch(config-ipfix-sampler-samplername)# do mkdir
Switch(config-ipfix-sampler-samplername)# do more
Switch(config-ipfix-sampler-samplername)# do no
Switch(config-ipfix-sampler-samplername)# do ping
Switch(config-ipfix-sampler-samplername)# do pwd
Switch(config-ipfix-sampler-samplername)# do re-activate
Switch(config-ipfix-sampler-samplername)# do reboot
Switch(config-ipfix-sampler-samplername)# do reload
Switch(config-ipfix-sampler-samplername)# do rename
Switch(config-ipfix-sampler-samplername)# do reset
Switch(config-ipfix-sampler-samplername)# do rmdir
Switch(config-ipfix-sampler-samplername)# do set
Switch(config-ipfix-sampler-samplername)# do show
Switch(config-ipfix-sampler-samplername)# do source
Switch(config-ipfix-sampler-samplername)# do ssh
Switch(config-ipfix-sampler-samplername)# do start
Switch(config-ipfix-sampler-samplername)# do telnet
Switch(config-ipfix-sampler-samplername)# do terminal
Switch(config-ipfix-sampler-samplername)# do traceroute
Switch(config-ipfix-sampler-samplername)# do write
```

## End

```
Switch(config-ipfix-sampler-samplername)# end
```

## Exit

```
Switch(config-ipfix-sampler-samplername)# exit
```

## Help

```
Switch(config-ipfix-sampler-samplername)# help
```

## Mode

```
Switch(config-ipfix-sampler-samplername)# mode flow
Switch(config-ipfix-sampler-samplername)# mode random
Switch(config-ipfix-sampler-samplername)# mode determinate
```

## No

```
Switch(config-ipfix-sampler-samplername)# no description
```

## Quit

```
Switch(config-ipfix-sampler-samplername)# quit
```

## Show

```
Switch(config-ipfix-sampler-samplername)# show history
Switch(config-ipfix-sampler-samplername)# show running-config
Switch(config-ipfix-sampler-samplername)# show this
```

## Monitor

```
Switch> enable
Switch# configure terminal
Switch(config)# ipfix monitor monitorname
```

## Description

```
Switch(config-ipfix-monitor-monitorname)# description
```

## Do

```
Switch(config-ipfix-monitor-monitorname)# do boot
Switch(config-ipfix-monitor-monitorname)# do cd
Switch(config-ipfix-monitor-monitorname)# do clear
Switch(config-ipfix-monitor-monitorname)# do configure
Switch(config-ipfix-monitor-monitorname)# do copy
Switch(config-ipfix-monitor-monitorname)# do debug
Switch(config-ipfix-monitor-monitorname)# do delete
Switch(config-ipfix-monitor-monitorname)# do dir
Switch(config-ipfix-monitor-monitorname)# do disable
Switch(config-ipfix-monitor-monitorname)# do enable
Switch(config-ipfix-monitor-monitorname)# do logging
Switch(config-ipfix-monitor-monitorname)# do logout
Switch(config-ipfix-monitor-monitorname)# do ls
Switch(config-ipfix-monitor-monitorname)# do md5sum
Switch(config-ipfix-monitor-monitorname)# do mkdir
Switch(config-ipfix-monitor-monitorname)# do more
Switch(config-ipfix-monitor-monitorname)# do no
Switch(config-ipfix-monitor-monitorname)# do ping
Switch(config-ipfix-monitor-monitorname)# do pwd
Switch(config-ipfix-monitor-monitorname)# do re-activate
Switch(config-ipfix-monitor-monitorname)# do reboot
Switch(config-ipfix-monitor-monitorname)# do reload
Switch(config-ipfix-monitor-monitorname)# do remane
Switch(config-ipfix-monitor-monitorname)# do reset
Switch(config-ipfix-monitor-monitorname)# do rmdir
Switch(config-ipfix-monitor-monitorname)# do set
Switch(config-ipfix-monitor-monitorname)# do show
Switch(config-ipfix-monitor-monitorname)# do source
```

```
Switch(config-ipfix-monitor-monitorname)# do ssh
Switch(config-ipfix-monitor-monitorname)# do start
Switch(config-ipfix-monitor-monitorname)# do telnet
Switch(config-ipfix-monitor-monitorname)# do terminal
Switch(config-ipfix-monitor-monitorname)# do traceroute
Switch(config-ipfix-monitor-monitorname)# do write
```

## End

```
Switch(config-ipfix-monitor-monitorname)# end
```

## Exit

```
Switch(config-ipfix-monitor-monitorname)# exit
```

## Exporter

```
Switch(config-ipfix-monitor-monitorname)# exporter exportername
```

## Help

```
Switch(config-ipfix-monitor-monitorname)# help
```

## No

```
Switch(config-ipfix-monitor-monitorname)# no description
```

```
Switch(config-ipfix-monitor-monitorname)# no exporter
```

```
Switch(config-ipfix-monitor-monitorname)# no recorder
```

## Quit

```
Switch(config-ipfix-monitor-monitorname)# quit
```

## Recorder

```
Switch(config-ipfix-monitor-monitorname)# recorder recordername
```

## Show

```
Switch(config-ipfix-monitor-monitorname)# show history
```

```
Switch(config-ipfix-monitor-monitorname)# show running-config
```

```
Switch(config-ipfix-monitor-monitorname)# show this
```

## IPFix Interface

```
Switch> enable
```

```
Switch# configure terminal
```

```
Switch(config)# interface eth-0-X
```

```
Switch(config-if-eth-0-X)# ipfix ipfix monitor input monitorname sampler samplername
```

```
Switch(config-if-eth-0-X)# ipfix ipfix monitor output monitorname sampler samplername
```

```
Switch(config-if-eth-0-X)# ipfix ipfix tunnel-aware inner
```

```
Switch(config-if-eth-0-X)# ipfix ipfix tunnel-aware inner-outer-merge
```

```
Switch(config-if-eth-0-X)# no shutdown
```

```
Switch(config-if-eth-0-X)# exit
```



## Global

```
Switch> enable  
Switch# configure terminal  
Switch(config)# ipfix global
```

### Do

```
Switch(config-ipfix-global)# do boot  
Switch(config-ipfix-global)# do cd  
Switch(config-ipfix-global)# do clear  
Switch(config-ipfix-global)# do configure  
Switch(config-ipfix-global)# do copy  
Switch(config-ipfix-global)# do debug  
Switch(config-ipfix-global)# do delete  
Switch(config-ipfix-global)# do dir  
Switch(config-ipfix-global)# do disable  
Switch(config-ipfix-global)# do enable  
Switch(config-ipfix-global)# do logging  
Switch(config-ipfix-global)# do logout  
Switch(config-ipfix-global)# do ls  
  
Switch(config-ipfix-global)# do md5sum  
Switch(config-ipfix-global)# do mkdir  
Switch(config-ipfix-global)# do more  
Switch(config-ipfix-global)# do no  
Switch(config-ipfix-global)# do ping  
Switch(config-ipfix-global)# do pwd  
Switch(config-ipfix-global)# do re-activate  
Switch(config-ipfix-global)# do reboot  
Switch(config-ipfix-global)# do reload  
Switch(config-ipfix-global)# do remane  
Switch(config-ipfix-global)# do reset  
Switch(config-ipfix-global)# do rmdir  
Switch(config-ipfix-global)# do set  
Switch(config-ipfix-global)# do show  
Switch(config-ipfix-global)# do source  
Switch(config-ipfix-global)# do ssh  
Switch(config-ipfix-global)# do start  
Switch(config-ipfix-global)# do telnet  
Switch(config-ipfix-global)# do terminal  
Switch(config-ipfix-global)# do traceroute  
Switch(config-ipfix-global)# do write
```

## End

```
Switch(config-ipfix-global)# end
```

## Exit

```
Switch(config-ipfix-global)# exit
```

## Flow

```
Switch(config-ipfix-global)# flow aging  
Switch(config-ipfix-global)# flow export
```

## Help

```
Switch(config-ipfix-global)# help
```

## No

```
Switch(config-ipfix-global)# no flow aging  
Switch(config-ipfix-global)# no flow export
```

## Quit

```
Switch(config-ipfix-global)# quit
```

## Show

```
Switch(config-ipfix-global)# show history  
Switch(config-ipfix-global)# show running-config  
Switch(config-ipfix-global)# show this
```