GARLAND
TECHNOLOGY
See every bit, byte, and packet®

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.

## 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 remane
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
```

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```
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 remane
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
```

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```
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 remane
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
```

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**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
```

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```
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
```

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**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
```