



## ECS Thresholds

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## ECS Thresholds

Threshold monitoring can be enabled for the ECS thresholds as described in the following table.

Threshold	Description
CDR File Space	Enables generation of alerts or alarms based on the percentage of total file space allocated for Charging Data Records (CDRs) used during the polling interval.
DNS-learnt IPv4 for ACS DNS Snooping feature	Enables generation of alerts or alarms based on the percentage of total DNS-learnt IPv4 entries in relation to the ACS DNS Snooping feature.
DNS-learnt IPv6 for ACS DNS Snooping feature	Enables generation of alerts or alarms based on the percentage of total DNS-learnt IPv6 entries in relation to the ACS DNS Snooping feature.
EDR File Space	Enables generation of alerts or alarms based on the percentage of total file space allocated for Event Data Records (EDRs) used during the polling interval.
Dropped EDR/UDR Flow Control	Enables generation of alerts or alarms based on the total number of Event Data Records (EDRs) and Usage Data Records (UDRs) discarded due to flow control.

## Configuring ECS Thresholds

This section describes how to enable and configure ECS thresholds.

## CDR File Space Threshold

CDR file space threshold generates alerts or alarms based on the percentage of total allocated CDR file space used during the polling interval.

Alerts or alarms are triggered based on the following rules:

- **Enter condition** : Actual percentage of allocated CDR file space usage is greater than or equal to the specified percentage of total CDR file space.
- **Clear condition** : Actual CDR file space used is less than the specified clear percentage of total allocated CDR file space usage.

If a trigger condition exists at the end of the polling interval, the alert or alarm will not be generated until the end of the polling interval.

## Configuring CDR File Space Threshold

To configure the CDR File Space threshold use the following configuration:

```
configure
  threshold cdr-file-space <high_thresh> [ clear <low_thresh> ]
  threshold poll cdr-file-space interval <seconds>
  threshold monitoring ecs
end
```

## DNS-learnt IPv4 Threshold

DNS-learnt IPv4 threshold generates alerts or alarms based on the percentage of total DNS-learnt IPv4 entries in relation to the ACS DNS Snooping feature.

Alerts or alarms are triggered based on the following rules:

- **Enter condition** : Actual percentage of total DNS-learnt IPv4 entries is greater than or equal to the specified percentage of total DNS-learnt IPv4 entries.
- **Clear condition** : Actual percentage of total DNS-learnt IPv4 entries is less than the specified clear percentage of total DNS-learnt IPv4 entries.

If a trigger condition occurs within the polling interval, the alert or alarm will not be generated until the end of the polling interval.

## Configuring DNS-Learnt IPv4 Threshold

To configure the DNS-Learnt IPv4 threshold use the following configuration:

```
configure
  threshold dns-learnt-ipv4-max-entries <high_thresh> [ clear <low_thresh> ]
  threshold poll dns-learnt-ipv4-max-entries <seconds>
  threshold monitoring ecs
end
```

## DNS-learnt IPv6 Threshold

DNS-learnt IPv6 threshold generates alerts or alarms based on the percentage of total DNS-learnt IPv6 entries in relation to the ACS DNS Snooping feature.

Alerts or alarms are triggered based on the following rules:

- **Enter condition** : Actual percentage of total DNS-learnt IPv6 entries is greater than or equal to the specified percentage of total DNS-learnt IPv6 entries.
- **Clear condition** : Actual percentage of total DNS-learnt IPv6 entries is less than the specified clear percentage of total DNS-learnt IPv6 entries.

If a trigger condition occurs within the polling interval, the alert or alarm will not be generated until the end of the polling interval.

## Configuring DNS-Learnt IPv6 Threshold

To configure the DNS-Learnt IPv6 threshold use the following configuration:

```
configure
threshold dns-learnt-ipv6-max-entries <high_thresh> [ clear <low_thresh> ]
threshold poll dns-learnt-ipv6-max-entries <seconds>
threshold monitoring ecs
end
```

## EDR File Space Threshold

EDR file space threshold generates alerts or alarms based on the percentage of total allocated EDR file space used during the polling interval.

Alerts or alarms are triggered based on the following rules:

- **Enter condition** : Actual percentage of allocated EDR file space usage is greater than or equal to the specified percentage of total EDR file space.
- **Clear condition** : Actual EDR file space used is less than the specified clear percentage of total allocated EDR file space usage.

If a trigger condition exists at the end of the polling interval, the alert or alarm will not be generated until the end of the polling interval.

## Configuring EDR File Space Threshold

To configure the EDR File Space threshold use the following configuration:

```
configure
threshold edr-file-space <high_thresh> [ clear <low_thresh> ]
threshold poll edr-file-space interval <seconds>
threshold monitoring ecs
end
```

## Dropped EDR/UDR Flow Control Threshold

Dropped EDR/UDR Flow Control threshold generates alerts or alarms based on the total number of Event Data Records (EDRs) and Usage Data Records (UDRs) discarded due to flow control.

Alerts or alarms are triggered based on the following rules:

- **Enter condition** : Actual number of EDRs + UDRs dropped greater than or equal to the specified number of EDRs + UDRs dropped.
- **Clear condition** : Actual number of EDR + UDRs dropped is less than the specified clear number of EDRs + UDRs dropped.

If a trigger condition occurs within the polling interval, the alert or alarm will not be generated until the end of the polling interval.

## Configuring Dropped EDR/UDR Flow Control Threshold

To configure the Dropped EDR/UDR Flow Control threshold use the following configuration:

```
configure
threshold edr-udr-dropped-flow-control <high_thresh> [ clear <low_thresh> ]

threshold poll edr-udr-dropped-flow-control <seconds>
threshold monitoring ecs
end
```

## Saving Your Configuration

When you configure thresholds they are not permanent unless you save the changes. When you have completed configuring thresholds, save your configuration to flash memory, an external memory device, and/or a network location using the Exec mode command **save configuration**. For additional information on how to verify and save configuration files, refer to the *System Administration Guide* and the *Command Line Interface Reference*.