



# Traffic Optimization Profile Configuration Mode Commands

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The Traffic Optimization Profile Configuration Mode allows you to configure and manage properties of Cisco Ultra Traffic Optimization solution.

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## Command Modes

Exec > ACS Configuration > Traffic Optimization Profile Configuration

**active-charging service** *service\_name* > **traffic-optimization-profile**

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-traffic-optim) #
```



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## Important

The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).

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## data-record

This command enables Traffic Optimization Data Record (TODR) generation.

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## Product

P-GW

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## Privilege

Security Administrator, Administrator

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## Command Modes

Exec > ACS Configuration > Traffic Optimization Profile Configuration

**active-charging service** *service\_name* > **traffic-optimization-profile**

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-traffic-optim)#
```

### Syntax Description

**data-record** [ **large-flows-only** | **managed-large-flows-only** ]  
**no data record**

**no**

If previously configured, disables generation of TODR.

### **data-record**

Enables the Traffic Optimization Data Record (TODR) generation

- **large-flows-only**: Enables the traffic optimization data record generation for large flows.

**managed-large-flows-only**: Enables the traffic optimization data record generation for managed large flows.

The keywords - **large-flows-only** and **managed-large-flows-only** when configured along with **data-record** enables the CUTO library to stream the respective statistics as part of the **stats-options** command, to the external server. The user can configure a combination of the **stats-options** keywords **flow-trace** and **flow-analyst** and the **data-record** command to notify the CUTO library accordingly.



**Note** One of the above the two keywords can be configured as part of the **data-record**, which will enable the CUTO library to stream the respective statistics.

The default behavior of the **data-record** command is not affected with the above implementation . If it is configured without any of the options, then TODR's will be generated for all standard and large flows, which is the existing behavior.

### Usage Guidelines

Use this command to generate TODR.

## efd-flow-cleanup-interval

This configures EFD flow command cleanup interval.

### Product

P-GW

### Privilege

Security Administrator, Administrator

### Command Modes

Exec > ACS Configuration > Traffic Optimization Profile Configuration  
**active-charging service** *service\_name* > **traffic-optimization-profile**

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-traffic-optim)#
```

### Syntax Description

[ **no** ] **efd-flow-cleanup-interval**

**no**

If previously configured, disables EFD flow cleanup interval.

**efd-flow-cleanup-interval**

Configures EFD flow cleanup interval. The interval value is an integer that ranges from 10 to 5000 milliseconds.

**Usage Guidelines**

Use this command to configure EFD flow cleanup interval.

## end

Exits the current configuration mode and returns to the Exec mode.

**Product**

All

**Privilege**

Security Administrator, Administrator

**Syntax Description**

**end**

**Usage Guidelines**

Use this command to return to the Exec mode.

## exit

Exits the current mode and returns to the parent configuration mode.

**Product**

All

**Privilege**

Security Administrator, Administrator

**Syntax Description**

**exit**

**Usage Guidelines**

Use this command to return to the parent configuration mode.

## heavy-session detection-threshold

Configures the threshold value for the TCP flow to be considered for the Traffic Optimization.

**Product**

P-GW

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec > ACS Configuration > Traffic Optimization Profile Configuration

**active-charging service** *service\_name* > **traffic-optimization-profile**

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-traffic-optim) #
```

**Syntax Description** `heavy-session detection-threshold bytes`

#### **heavy-session**

Specifies the heavy session configuration for the Traffic Optimization.

#### **detection-threshold bytes**

Specifies the detection threshold, in bytes. Beyond which, it is considered as heavy session. The *bytes* must be an integer from 1 to 4294967295.

To get optimum Traffic Optimization benefit, it is recommended to not set it less than 3 MB.

**Usage Guidelines** Use this command to set the threshold value for the TCP flow.

#### **Example**

The following command sets the threshold value to *3145728* bytes:

```
heavy-session detection-threshold 3145728
```

## mode

Configures the operating mode for the Cisco Ultra Traffic Optimization engine.

**Product** P-GW

**Privilege** Security Administrator, Administrator

**Command Modes** Exec > ACS Configuration > Traffic Optimization Profile Configuration

```
active-charging service service_name > traffic-optimization-profile
```

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-traffic-optim)#
```

**Syntax Description** `mode [ active | passive ]`

#### **mode**

Sets the mode of operation for Traffic Optimization.

#### **trial-mode**

Enables the Crowd Sourcing Optimization feature in the Trial Mode.

#### **Syntax**

```
trial-mode start-time
```

```
YYYYMMDDHHMM end-time YYYYMMDDHHMM mode-toggle-interval mode_toggle_interval
```

```
initial-mode initial_active | initial_passive
```

**active**

The mode where both Traffic Optimization and flow monitoring is done on the packet.

**passive**

The mode where no flow-control is performed but monitoring is done on the packet.

**Usage Guidelines**

Use this command to set the operating mode for the Cisco Ultra Traffic Optimization engine.

**Example**

The following command sets the operating mode to **active**:

```
mode active
```

## stats-interval

This command configures the flow statistics collection and reporting interval.

**Product**

P-GW

**Privilege**

Security Administrator, Administrator

**Command Modes**

Exec > ACS Configuration > Traffic Optimization Profile Configuration

**active-charging service** *service\_name* > **traffic-optimization-profile**

Entering the above command sequence results in the following prompt:

```
[local]host_name(config-traffic-optim) #
```

**Syntax Description**

[ no ] **stats-interval**

**no**

If previously configured, disables collection of flow statistics.

**stats-interval**

Configures the flow statistics collection and reporting interval in seconds. The interval value is an integer that ranges from 1 to 60 seconds.

**Usage Guidelines**

Use this command to collect and report flow statistics.

## stats-options

This command configures options to collect the flow statistics.

**Product**

P-GW

<b>Privilege</b>	Security Administrator, Administrator
<b>Command Modes</b>	Exec > ACS Configuration > Traffic Optimization Profile Configuration <b>active-charging service</b> <i>service_name</i> > <b>traffic-optimization-profile</b> Entering the above command sequence results in the following prompt: <pre>[local]host_name(config-traffic-optim)#</pre>
<b>Syntax Description</b>	<pre>[ no ] stats-options { flow-analyst [ flow-trace ]   flow-trace [ flow-analyst ] }</pre> <p><b>no</b> If previously configured, disables trace collection and reporting.</p> <p><b>flow-analyst</b> Enables flow analysis, and large trace collection and reporting.</p> <p><b>flow-trace</b> Enables flow trace collection and reporting.</p>
<b>Usage Guidelines</b>	Use this command to enable trace collection and reporting.