

T Commands

This chapter describes the Cisco NX-OS object tracking commands that begin with T.

threshold percentage

To set a threshold percentage for a tracked object in a list of objects, use the **threshold percentage** command. To disable the threshold percentage, use the **no** form of this command.

threshold percentage {**up** *number* [**down** *number*] | **down** *number* [**up** *number*]}

no threshold percentage

Syntax Description		
	up	Specifies the up threshold.
	down	(Optional) Specifies the down threshold.
	number	Threshold value. The range is from 0 to 100.
Command Default	None	
Command Modes	Tracking configurat	ion mode
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines	available: boolean a percentage or weig	e a tracked list using the track <i>object-number</i> list command, there are two keywords and threshold . If you specify the threshold keyword, you can specify either the ht keywords. If you specify the percentage keyword, the weight keyword is
	unavallable. Il you s	specify the weight keyword, the percentage keyword is unavailable.
	You should configur	re the up percentage first. The valid range is from 1 to 100. The down percentage u have configured for up. For example, if you configure 50 percent for up, you see
Examples	You should configure depends on what yo a range from 0 to 49	re the up percentage first. The valid range is from 1 to 100. The down percentage u have configured for up. For example, if you configure 50 percent for up, you see 9 percent for down.
Examples	You should configure depends on what you a range from 0 to 49 This example shows of 50 and a down per switch(config)# transition switch(config-transition)	re the up percentage first. The valid range is from 1 to 100. The down percentage u have configured for up. For example, if you configure 50 percent for up, you see 9 percent for down. 6 how to configure the tracked list 11 to measure the threshold using an up percentage ercentage of 32: rack 11 list threshold percentage ck) # object 1 ck) # object 2 ck) # threshold percentage up 50 down 32
	You should configure depends on what you a range from 0 to 49 This example shows of 50 and a down per switch(config)# transwitch(config-tr	re the up percentage first. The valid range is from 1 to 100. The down percentage u have configured for up. For example, if you configure 50 percent for up, you see 9 percent for down. 6 how to configure the tracked list 11 to measure the threshold using an up percentage ercentage of 32: rack 11 list threshold percentage ck) # object 1 ck) # object 2 ck) # threshold percentage up 50 down 32
Examples Related Commands	You should configure depends on what you a range from 0 to 49 This example shows of 50 and a down per switch(config)# t: switch(config-transwitch(config-tra	re the up percentage first. The valid range is from 1 to 100. The down percentage u have configured for up. For example, if you configure 50 percent for up, you see 9 percent for down. 6 how to configure the tracked list 11 to measure the threshold using an up percentage ercentage of 32: rack 11 list threshold percentage ck) # object 1 ck) # object 2 ck) # threshold percentage up 50 down 32 ck) #

threshold weight

To set a threshold weight for a tracked object in a list of objects, use the **threshold weight** command. To disable the threshold weight, use the **no** form of this command.

threshold weight {up number [down number] | down number [up number]}

no threshold weight

Syntax Description	up	Specifies the up threshold.
	down	(Optional) Specifies the down threshold.
	number	Threshold value. The range is from 1 to 255.
Command Default	None	
Command Modes	Tracking configuration	mode
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
	You should configure th	ify the weight keyword, the percentage keyword is unavailable. He up weight first. The valid range is from 1 to 255. The available down weight two configured for the up weight. For example, if you configure 25 for up, you to 24 for down.
Examples	This example shows how to configure the tracked list 12 to measure a threshold using a specified weight switch(config)# track 11 list threshold weight switch(config-track)# object 1 switch(config-track)# object 2 switch(config-track)# threshold weight up 35 down 22 switch(config-track)#	
Related Commands	Command threshold percentage	Description
	threshold percentage track list	Sets a threshold percentage for a tracked object in a list of objects. Specifies a list of objects to be tracked and the thresholds to be used for
	VA WWWIN ANDV	specifies a fist of objects to be thened and the thresholds to be used for

track interface

To configure object tracking on an interface, use the **track interface** command. To remove the object tracking for this interface, use the **no** form of this command.

track object-id interface interface-type number {ip routing | line-protocol}

no track object-id [force]

Syntax Description	object-id	Tracking ID. The range can be from 1 to 500.
	interface <i>interface-type number</i>	Specifies the interface to track. Use the online ? help to see a list of available interface types.
	ip routing	Tracks the IP routing state of the interface.
	line-protocol	Tracks the line protocol state of the interface.
	force	(Optional) Completely removes the object tracking instance.
Command Default	None	
Command Modes	Global configuration mo	de
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines	Use the track interface command to track the line protocol status or IPv4 routing state of an interface This command enters the object tracking command mode. Use the vrf member command in object tracking configuration mode to track objects in a nondefault VRF.	
Examples	This example shows how	to track the IP routing state on interface Ethernet 1/2:
	<pre>switch(config)# track switch(config-track)#</pre>	1 interface ethernet 1/2 ip routing
Related Commands	Command	Description

elated Commands	Command	Description
	show track	Displays information about object tracking.
	track ip route reachability	Tracks the state of an IPv4 route reachability.
	vrf member	Tracks an object in a nondefault VRF.

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track ip route

To configure object tracking on an IP route, use the **track ip route** command. To remove the object tracking for this route, use the **no** form of this command.

track *object-id* ip route *ip-prefix/length* reachability

no track object-id [force]

Syntax Description	object-id	Tracking ID. The range can be from 1 to 500.
	ip-prefix/length	Prefix of route to track. The IP prefix is in dotted decimal format (X.X.X.X).
		The length can be from 1 to 32.
	reachability	Tracks the reachability state of an IP route.
	force	(Optional) Completely removes the object tracking instance.
Command Default	None	
Command Modes	Global configuration	mode
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines		te command to track IP route reachability. This command enters the object tracking the vrf member command in object tracking configuration mode to track objects
Examples	This example shows	how to track an IP route:
	<pre>switch(config)# track 1 ip route 10.10.10.0/8 reachability switch(config-track)#</pre>	
Deleted Commercia	Commond	Description
Related Commands	Command	Description
Related Commands	show track	Displays information about object tracking.
Related Commands		•

track list

To configure object tracking on an object list, use the **track list** command. To remove the object tracking for this object list, use the **no** form of this command.

track object-id list boolean {and | or}

track object-id list threshold {percentage | weight}

no track object-id [force]

Syntax Description	object-id	Tracking ID. The range can be from 1 to 500.
	boolean	Combines the tracked object states as a boolean combination.
	and	Combines the tracked object states as a boolean AND.
	or	Combines the tracked object states as a boolean OR.
	threshold	Combines the tracked object states as a percent or weight combination.
	percentage	Combines the tracked object states as a percent of the total number of tracked objects in the list.
	weight	Combines the tracked object states as a combination of their configured weights.
	force	(Optional) Completely removes the object tracking instance.
Command Default	None	
Command Modes	Global configuration	on mode
Command History	Release	Modification
	6.0(2)N1(1)	This command was introduced.
Usage Guidelines	Use the track list command to create a list of objects to combine into one tracked state. Use the boolean and keywords to combine the tracked objects as an AND function (that is, all objects must be up for the track list to be up). Use the boolean or keywords to combine the tracked objects as an OR (that is if any object is up, the tracked state is up).	
	The track list command enters the track command mode. You can configure the following commands in this mode:	
	÷	gures one or more objects to track in the track list. You can optionally use the not gate the object track state. (That is, an up state becomes a down state if you use the

Examples

This example shows how to create a track list of two objects and AND their state:

```
switch# configure terminal
switch(config)# track 1 boolean and
switch(config-track)# object 33
switch(config-track)# object 30
switch(config-track)#
```

This example shows how to configure a track list with an up threshold of 70 percent and a down threshold of 30 percent:

```
switch# configure terminal
switch(config)# track 1 list threshold percentage
switch(config-track)# threshold percentage up 70 down 30
switch(config-track)# object 10
switch(config-track)# object 20
switch(config-track)# object 30
switch(config-track)#
```

This example shows how to configure a track list with an up weight threshold of 30 and a down threshold of 10:

```
switch# configure terminal
switch(config)# track 1 list threshold weight
switch(config-track)# threshold weight up 30 down 10
switch(config-track)# object 10 weight 15
switch(config-track)# object 20 weight 15
switch(config-track)# object 30
switch(config-track)#
```

In this example, the track list is up if object 10 and object 20 are up, and the track list goes to the down state if all three objects are down.

Related Commands	Command	Description
	show track	Displays information about object tracking.
	track ip route	Tracks an interface.