

# **Object Tracking Commands**

This chapter describes the Cisco IOS XR software commands used to track objects. For information about how to use these commands to configure object tracking, see *System Management Configuration Guide for Cisco CRS Routers*.

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- interface (track), on page 4
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# delay

	To configure the delay, in seconds, before the track or interface state should be polled for a change in status, use the <b>delay</b> command in track configuration mode. To delete the configuration of delay tracking, use the <b>no</b> form of this command.				
	delay {up   down} sea no delay {up   down}	conds [seconds]			
Syntax Description	delay up seconds	Sets delay of from 1 to 180 seconds before communication of up status of the tracked object or list of objects.			
	delay down seconds	Sets delay of from 1 to 180 seconds before communication of down status of the tracked object or list of objects.			
Command Default	No default behavior or v	values			
Command Modes	Track configuration				
Command History	Release	Modification			
	Release 4.2.1	This command was introduced.			
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.				
	The <b>delay</b> command can be used in conjunction with all track types:				
	<ul> <li>type line-protocol state, on page 13</li> <li>type list boolean, on page 14</li> </ul>				
	• type route reachability, on page 18				
	When using the <b>no</b> form of the command, the use of the <i>seconds</i> argument is optional.				
Task ID	Task Operations ID				
	sysmgr read, write				
	The fellowing evenue	about that the two ships are seen is a suffering to a stift, the astronyle			

The following example shows that the tracking process is configured to notify the network administrator that the interface should be polled for its up state in five-second intervals:

```
RP/0/RP0/CPU0:router# configuration
RP/0/RP0/CPU0:router(config)# track name1
RP/0/RP0/CPU0:router(config-track)# delay up 5
```

### **Related Topics**

track, on page 10

## interface (track)

To select an interface object type for tracking purposes, use the **interface** command in interface configuration mode. To delete the configuration of a track based on a particular interface object type, use the **no** form of this command.

**interface** type interface-path-id **no interface** type interface-path-id

Syntax Description	type	(Optional function	al) Interface type. For more information, use the question mark (?) online help	
	interface-path-id	(Optiona	al) Physical interface or virtual interface.	
		Note	Use the <b>show interfaces</b> command to see a list of all interfaces currently configured on the router.	
		For mor help fun	e information about the syntax for the router, use the question mark (?) online action.	
Command Default	No default behavio	or or valu	es	
Command Modes	Interface configura	ation		
Command History	Release Modification		Modification	
	Release 4.2.1		This command was introduced.	
Usage Guidelines	To use this comma IDs. If the user gro for assistance.	ind, you n oup assigr	nust be in a user group associated with a task group that includes appropriate task ment is preventing you from using a command, contact your AAA administrator	
	To access the <b>interface</b> command, you must be in line protocol tracking configuration submode.			
	For information at <i>Cisco CRS Router</i>	out interf s.	face keywords, see Interface and Hardware Component Command Reference for	
Task ID	Task Operations ID	-		
	sysmgr read, write	-		
	The following exa	mple sho	ws the <b>interface</b> command in the context of object tracking:	
	RP/0/RP0/CPU0.r	outer# c	onfigure	

```
RP/0/RP0/CPU0:router(config) # track track12
RP/0/RP0/CPU0:router(config-track) # type line-protocol state
RP/0/RP0/CPU0:router(config-track-line-prot) # interface atm 0/2/0/0.1
```

### **Related Topics**

track, on page 10 type line-protocol state, on page 13 type list boolean, on page 14 type route reachability, on page 18

### line-protocol track

To associate a specific track with an IPsec or GRE interface object, use the **line-protocol track** command in interface configuration mode. To delete the association between the track and the IPsec or GRE interface object, use the **no** form of this command.

line-protocol track *object-name* no line-protocol track *object-name* 

Syntax Description	<i>object-name</i> Name of object being tracked.		
Command Default	No default behavior or values		
Command Modes	Interface configuration		
Command History	Release	Modification	
	Release 4.2.1	This command was introduced.	

Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

 Task ID
 Task ID
 Operations

 ID
 sysmgr read, write

The following example shows how the line-protocol track command is used:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# track PREFIX1
RP/0/RP0/CPU0:router(config-track)# type route reachability
RP/0/RP0/CPU0:router(config-track-route)# route ipv4 7.0.0.0/24
RP/0/RP0/CPU0:router(config-track-route)# interface service-ipsec 1
RP/0/RP0/CPU0:router(config-if)# vrf 1
RP/0/RP0/CPU0:router(config-if)# ipv4 address 70.0.0.2 255.25.255.0
RP/0/RP0/CPU0:router(config-if)# line-protocol track PREFIX1
```

#### **Related Topics**

interface (track), on page 4 track, on page 10

# object

	previously configured track based on an object, use the <b>no</b> form of this command.			
	no object a	bject-name		
Syntax Description	object-name	Name of the object to be tracked.		
	not	(Optional) Deletes a preivously configure up or down.	ed track based on whether an interface object is not	
Command Default	No default be	havior or values		
Command Modes	List tracking	configuration		
Command History	Release	Мо	dification	
	Release 4.2.	Thi	s command was introduced.	
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.			
	To delete a previously configured track based on whether an interface object is <i>not</i> up or down, use the <b>not</b> keyword together with the <b>object</b> command in a list of tracked objects based on a Boolean expression.			
	The <b>object</b> command can be used only for a track based on a Boolean expression.			
Task ID	Task Opera ID	tions		
	sysmgr read, write			
	The followin tracked list o	example shows how to configure an object objects based on a Boolean calculation:	ct, using the optional <b>not</b> keyword, in a	
		10. routor# configure		

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# track connection100
RP/0/RP0/CPU0:router(config-track-list)# type list boolean and
RP/0/RP0/CPU0:router(config-track-list)# object obj3 no
```

### **Related Topics**

track, on page 10 type list boolean, on page 14

### route ipv4

To configure that an IP prefix and subnet mask should be used as the basis to track route reachability, use the **route ipv4** command in route tracking configuration mode. To remove this configuration, use the **no** form of the command.

route ipv4 *IP prefix and subnet mask* no route ipv4

Syntax Description	<i>IP prefix and subnet mask</i> Netwo	rk and subnet mask; for example, 10.56.8.10/16.	
Command Default	No default behavior or values		
Command Modes	Route tracking configuration		
Command History	Release	Modification	
	Release 4.2.1	This command was introduced.	

# **Usage Guidelines** To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

The IP prefix and subnet mask arguments are optional for the no form of this command.

 Task ID
 Task ID
 Operations

 ID
 sysmgr read,

write

The following example displays use of the route ipv4 command:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# track track22
RP/0/RP0/CPU0:router(config-track)# type route reachability
RP/0/RP0/CPU0:router(config-track-route)# route ipv4 10.56.8.10/16
```

### **Related Topics**

type route reachability, on page 18 vrf (track), on page 21

## show track

To display information about objects that were tracked and to specify the format of the report, use the **show track** command in EXEC mode.

	show track [{track-name   in	terface   ipv4 route}] [brief]			
Syntax Description	track-name (Optional) Name	of track used for tracking objects; for example, track1.			
	brief (Optional) Displa	ays a single line of information related to the preceding argument or keyword.			
	interface (Optional) Displa	ays tracked interface objects.			
	ipv4 route (Optional) Displa	ays the tracked IPv4 route objects.			
Command Default	No default behavior or values				
Command Modes	EXEC				
Command History	Release	Modification			
	Release 4.2.1	This command was introduced.			
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.				
	Use the <b>show track</b> command When no arguments or keywor	to display information about objects that are tracked by the tracking process. ds are specified, information for all objects is displayed.			
Task ID	Task Operations ID				
	sysmgr read				
	The following sample output illustrates use of the <b>show track</b> command:				
	RP/0/RP0/CPU0:router# show track Track_name3				
	Track_name3 List boolean and 1 change, last c object n object n	l is DOWN hange 10:26:20 SJC Sun Aug 05 2007 ame2 not UP ame1 UP			

**Related Topics** 

track, on page 10

# track

	To initiate or identify a tracking process used to track the status of an object or list of objects, use the <b>track</b> command in global configuration mode. To remove the tracking process, use the <b>no</b> form of this command. <b>track</b> <i>track-name</i> <b>no</b> <i>track track-name</i>			
Syntax Description	track	track-name	Name of track used for tracking objects; for example, track1.	
Command Default	No defa	ault behavior	r or values	
Command Modes	Global	configuratio	n	
Command History	Releas	se	Modification	
	Releas	se 4.2.1	This command was introduced.	
Usage Guidelines	To use IDs. If for assi When y	this comman the user grou stance.	ad, you must be in a user group associated with a task group that includes appropriate task ip assignment is preventing you from using a command, contact your AAA administrator rack command, you enter track configuration mode	
Task ID	Task	Operations	rack command, you enter track configuration mode.	
	sysmgr	read, write		
	This example shows that the tracking process is configured to notify the network administrator about the up state of the tracked object list every five seconds:			
	RP/0/R RP/0/R RP/0/R	.P0/CPU0:roi .P0/CPU0:roi .P0/CPU0:roi	ater# <b>configure</b> ater(config)# <b>track LIST2</b> ater# <b>track LIST2 delay up 5</b>	
	Related	d Topics	2	
	ue	nay, on page	2	

show track, on page 9 type line-protocol state, on page 13 type list boolean, on page 14 type route reachability, on page 18

# threshold percentage

To configure tracking threshold values based on percentages, use the **threshold percentage** command in track list threshold configuration mode. To remove a threshold percentage, use the **no** form of the command.

threshold percentage up weight [down weight]

Syntax Description	<b>up</b> Maximum threshold value for the specific range beyond which a track is set to the DOWN state.				
	weight Percentage limit to define the maximum threshold value.				
	down Minimum thr	reshold value for the specific range below which a track is set to the DOWN state.			
	weight Percentage lin	mit to define the minimum threshold value.			
Command Default	None				
Command Modes	Tack list threshold con	figuration			
Command History	Release Modific	ation			
	Release This con 4.2.1	nmand was introduced.			
Usage Guidelines	<ul> <li>Use the threshold per of a percentage threshol</li> <li>A percentage three threshold value an</li> <li>A percentage three the range in a conditional sectors and a conditional sectors and a conditional sectors and a conditional sectors are an an</li></ul>	<b>centage</b> command to specify the tracking threshold value used to determine the state old-weighted list. shold-weighted list is set to the UP state when the percentage of objects is between UP ad DOWN threshold value. eshold-weighted list is set to the DOWN state when the percentage of objects is out of afiguration.			
Task ID	Task Operation ID				
	sysmgr read, write				
	This example shows how to specify the weight thresholds for a threshold-weighted list:				
	RP/0/RP0/CPU0:route RP/0/RP0/CPU0:route RP/0/RP0/CPU0:route	er(config)# <b>track 4</b> er(config-track)# <b>type list threshold weight</b> er(config-track-list-threshold)# <b>threshold percentage up 50 down 33</b>			
	<b>Related Topics</b>				

type list threshold percentage, on page 16

# threshold weight

To configure tracking threshold values based on weights, use the **threshold weight** command in track list threshold configuration mode. To remove a threshold weight, use the **no** form of the command.

threshold weight up weight [down weight]

Syntax Description	<b>up</b> Maximum threshold value for the specific range beyond which a track is set to the DOWN state.					
	weight Percentage limit to define the maximum threshold value.					
	<b>down</b> Minimum threshold value for the specific range below which a track is set to the DOWN state.					
	weight Percentage limit to define the minimum threshold value.					
Command Default	None					
Command Modes	Tack list threshold configuration					
Command History	Release Modification					
	ReleaseThis command was introduced.4.2.1					
Usage Guidelines	Use the <b>threshold weight</b> command to specify the threshold value used to determine the state of a threshold-weighted list.					
	• A threshold-weighted list is set to the UP state when the cumulative sum of the weight of objects is between UP threshold value and DOWN threshold value.					
	• A threshold-weighted list is set to the DOWN state when the cumulative sum of the weight of objects is out of the range in a configuration.					
Task ID	Task Operation ID					
	sysmgr read, write					
	This example shows how to specify the weight thresholds for a threshold-weighted list:					
	RP/0/RP0/CPU0:router(config)# <b>track 4</b> RP/0/RP0/CPU0:router(config-track)# <b>type list threshold weight</b> RP/0/RP0/CPU0:router(config-track-list-threshold)# <b>threshold weight up 18 down 5</b>					

### Related Topics

type list threshold weight, on page 17

## type line-protocol state

To configure tracking of the line protocol state of an interface object, use the **type line-protocol** command in track configuration mode. To delete the configuration of line-protocol tracking, use the **no** form of this command.

type line-protocol state no type line-protocol state

Command Default No default behavior or values

Command Modes Track configuration

Command History	Release	Modification	
	Release 4.2.1	This command was introduced.	

**Usage Guidelines** To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

The **type line-protocol state** command can be used in conjunction with the **delay** command to configure the delay, in seconds, before the track or interface state should be polled for a change in its status.

The type line-protocol state command enters line-protocol tracking configuration mode.

# Task ID Task Operations ID sysmgr read,

write

This example shows how to use the type line-protocol state command:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# track track12
RP/0/RP0/CPU0:router(config-track)# type line-protocol state
```

### **Related Topics**

delay, on page 2 interface (track), on page 4 show track, on page 9 track, on page 10

## type list boolean

To configure a tracked list of objects based on a Boolean calculation, use the **type list boolean** command in track configuration mode. To remove an object tracking list based on a Boolean calculation, use the **no** form of the command.

type list boolean {and | or} no type list boolean {and | or}

Syntax Description Specifies that the list is up if all objects are up, or down if one or more objects are down. For example, and when tracking two interfaces, up means that both interfaces are up, and down means that either interface is down. or Specifies that the list is up if at least one object is up. For example, when tracking two interfaces, up means that either interface is up, and down means that both interfaces are down. No default behavior or values **Command Default Command Modes** Track configuration **Command History** Release Modification Release 4.2.1 This command was introduced.

# Usage Guidelines To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.

The **type list boolean** command enters the list tracking configuration mode, and can be used in conjunction with the **delay** command to configure the delay, in seconds, before the track or interface state should be polled for a change in its status.

To remove a track based on whether an interface object is *not* up or down, use the **not** keyword together with the **object** command as shown in the example that follows.

 Task ID
 Task Operations

 ID
 sysmgr read, write

This example shows how to use the **type list boolean** command in creating a list of objects to be tracked:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# track LIST2
RP/0/RP0/CPU0:router(config-track)# type list boolean and
RP/0/RP0/CPU0:router(config-track-list)# object IPSec1 not
RP/0/RP0/CPU0:router(config-track-list)# object IPSec2
```

```
RP/0/RP0/CPU0:router(config-track-list) # object PREFIX1
RP/0/RP0/CPU0:router(config-track-list)# exit
RP/0/RP0/CPU0:router(config) # track IPSec1
RP/0/RP0/CPU0:router(config-track)# type line-protocol state
RP/0/RP0/CPU0:router(config-track-line-prot)# interface tengige 0/0/0/3
RP/0/RP0/CPU0:router(config-track-line-prot)# exit
RP/0/RP0/CPU0:router(config-track)# track IPSec2
RP/0/RP0/CPU0:router(config-track)# type line-protocol state
RP/0/RP0/CPU0:router(config-track-line-prot)# interface ATM0/2/0.1
RP/0/RP0/CPU0:router(config-track-line-prot)# exit
RP/0/RP0/CPU0:router(config) # track PREFIX1
RP/0/RP0/CPU0:router(config-track)# type route reachability
RP/0/RP0/CPU0:router(config-track-route) # route ipv4 7.0.0.0/24
RP/0/RP0/CPU0:router(config-track-route) # exit
RP/0/RP0/CPU0:router(config-track)# interface service-ipsec 1
RP/0/RP0/CPU0:router(config-if)# vrf 1
RP/0/RP0/CPU0:router(config-if)# ipv4 address 70.0.0.2 255.255.255.0
RP/0/RP0/CPU0:router(config-if)# profile vrf 1 ipsec
RP/0/RP0/CPU0:router(config-if)# line-protocol track LIST2
RP/0/RP0/CPU0:router(config-if)# tunnel source 80.0.0.2
RP/0/RP0/CPU0:router(config-if)# tunnel destination 80.0.0.1
RP/0/RP0/CPU0:router(config-if)# service-location preferred-active 0/2/0
RP/0/RP0/CPU0:router(config-if) # commit
```

### **Related Topics**

delay, on page 2 line-protocol track, on page 6 object, on page 7 show track, on page 9 track, on page 10 type line-protocol state, on page 13 type route reachability, on page 18

## type list threshold percentage

To configure a tracked list of objects based on a percentage threshold, use the **type list threshold percentage** command in track configuration mode. To remove an object tracking list based on a percentage threshold, use the **no** form of the command.

### type list threshold percentage

Syntax Description	This command h	has no keywords	or arguments.
--------------------	----------------	-----------------	---------------

Command Default	None	

Command Modes Track configuration

Mana

 Command History
 Release
 Modification

 Release
 This command was introduced.

 4.2.1

### Usage Guidelines

Use the **threshold percentage** command to specify the tracking threshold value used to determine the state of a percentage threshold-weighted list. A percentage threshold-weighted list is set to the UP state when the percentage of objects in the UP state is between UP threshold value to DOWN threshold value. A percentage threshold-weighted list is set to the DOWN state when the percentage of objects is out of the range in a configuration.

Use the **object** command to add tracked objects to the threshold-weighted list. A maximum of 200 track objects are allowed.

### Task ID Task

sk Operation

sysmgr read, write

ID

This example shows how to add objects to a percentage threshold-weighted list:

```
RP/0/RP0/CPU0:router(config) # track 4
RP/0/RP0/CPU0:router(config-track) # type list threshold percentage
RP/0/RP0/CPU0:router(config-track-list-threshold) # object 1
RP/0/RP0/CPU0:router(config-track-list-threshold) # object 2
RP/0/RP0/CPU0:router(config-track-list-threshold) # object 3
```

#### **Related Topics**

object, on page 7 threshold percentage, on page 11

## type list threshold weight

To configure a tracked list of objects based on a weight threshold, use the **type list threshold weight** command in track configuration mode. To remove an object tracking list based on a weight threshold, use the **no** form of the command.

### type list threshold weight

Syntax Description This command has no keywords or arguments.

Command Default None

Command Modes Track configuration

 Command History
 Release
 Modification

 Release
 This command was introduced.

 4.2.1

### **Usage Guidelines**

Use the **threshold weight** command to specify the threshold value used to determine the state of a threshold-weighted list. When the cumulative sum of the weight of objects in the UP state is between UP threshold value to DOWN threshold value, the threshold-weighted list is set to the UP state. A threshold-weighted list is set to the DOWN state when the cumulative sum of the weight of objects in the UP state is out of the range in a configuration.

Use the **object** command to add tracked objects to the threshold-weighted list. A maximum of 200 track objects are allowed.

### Task ID Task Operation

ID sysmgr read,

write

This example illustrates how to add objects to a threshold-weighted list:

```
RP/0/RP0/CPU0:router(config) # track t4
RP/0/RP0/CPU0:router(config-track) # type list threshold weight
RP/0/RP0/CPU0:router(config-track-list-threshold) # object 1
RP/0/RP0/CPU0:router(config-track-list-threshold) # object 1 weight 10
RP/0/RP0/CPU0:router(config-track-list-threshold) # object 2 weight 5
RP/0/RP0/CPU0:router(config-track-list-threshold) # object 3 weight 3
```

### **Related Topics**

object, on page 7 threshold weight, on page 12

# type route reachability

To configure the routing process to notify the tracking process when the route state changes due to a routing update, use the **type route reachability** command in track configuration mode. To remove a track based on route reachability, use the **no** form of this command.

type route reachability no type route reachability

Syntax Description	This command has no keywords or arguments.							
Command Default	No default behavior or values         Track configuration							
Command Modes								
Command History	Release Modification		Modification					
	Releas	e 4.2.1	This command was introduced.					
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.							
	A tracked IP-route object is considered up and reachable when a routing-table entry exists for the route and the route is not inaccessible.							
	The <b>type route reachability</b> command can be used in conjunction with the <b>delay</b> command to configure the delay, in seconds, before the track or interface state should be polled for a change in its status.							
	The route reachability tracking process is based on either of the following, depending on your router type:							
	• vrf—A VRF table name.							
	• route—An IPv4 prefix consisting of the network and subnet mask (for example, 10.56.8.10/16).							
Task ID	Task ID	Operations						
	sysmgr	read, write						
	This example shows how to track for route reachability:							
	RP/0/RP0/CPU0:router# configure							

# RP/0/RP0/CPU0:router(config)# track track22 RP/0/RP0/CPU0:router(config-track)# type route reachability

### **Related Topics**

delay, on page 2 show track, on page 9

track, on page 10

## type rtr

To configure the router to track the return code of IP service level agreement (SLA) operations, use the **type rtr** command in track configuration mode. To remove a track based on IP SLA return code, use the **no** form of this command.

type rtr *ipsla-no* reachability no type rtr

Syntax Description	<i>ipsla-no</i> IP SLA operation number. Values can range from 1 to 2048.						
	reachabilit	y Tracks whether the route is re					
Command Default	None						
Command Modes	Track config	guration					
Command History	Release	Modification	_				
	Release 4.0.0	This command was introduced	-				
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.						
	Use the type rtr command in conjunction with a configuration that uses:						
	• The						
	track keyword in the permit command within an ACL definition. For example:						
	ipv4 access-list abf-track 10 permit any any nexthop track track1 1.2.3.4						
	• An IP s	service level agreement configura	ation.				
Task ID	Task Op ID	eration					
	sysmgr rea wri	d, ite					
	This examp	le shows how to configure IPSLA	A object tracking:				

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# track track22
```

```
RP/0/RP0/CPU0:router(config-track) # type rtr 1 reachability
```

## vrf (track)

To configure a VRF table to be used as the basis to track route reachability, use the **vrf** command in route tracking configuration mode. To delete the configuration of a VRF table for the purpose of IP route tracking purposes, use the **no** form of the command.

vrf vrf-table-name
no vrf [vrf-table-name]

Syntax Description	<b>n</b> <i>vrf-table-name</i> Network and subnet; for example, 10.56.8.10/16.					
Command Default	No default behavior or values					
Command Modes	Route tracking configuration					
Command History	Release	Modification				
	Release 4.2.1	This command was introduced.				
Usage Guidelines	To use this command, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using a command, contact your AAA administrator for assistance.					

Task ID	Task ID	Operations	
	sysmgr	read,	
		write	

The following example displays the use of the **vrf** command:

```
RP/0/RP0/CPU0:router# configure
RP/0/RP0/CPU0:router(config)# track track22
RP/0/RP0/CPU0:router(config-track)# type route reachability
RP/0/RP0/CPU0:router(config-track-route)# vrf vrf1
```

### **Related Topics**

delay, on page 2 route ipv4, on page 8 type route reachability, on page 18

I