Configuring Object Tracking

This chapter describes how to configure object tracking on Cisco NX-OS switches.

This chapter includes the following sections:

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Information About Object Tracking

Object tracking allows you to track specific objects on the switch, such as the interface line protocol state, IP routing, and route reachability, and to take action when the tracked object's state changes. This feature allows you to increase the availability of the network and shorten recovery time if an object state goes down.

This section includes the following topics:

- Object Tracking Overview, page 19-2
- Object Track List, page 19-2
- Virtualization Support, page 19-3

Object Tracking Overview

The object tracking feature allows you to create a tracked object that multiple clients can use to modify the client behavior when a tracked object changes. Several clients register their interest with the tracking process, track the same object, and take different actions when the object state changes.

Clients include the following features:

- Hot Standby Redundancy Protocol (HSRP)
- Virtual port channel (vPC)
- Virtual Router Redundancy Protocol (VRRP)

The object tracking monitors the status of the tracked objects and communicates any changes made to interested clients. Each tracked object is identified by a unique number that clients can use to configure the action to take when a tracked object changes state.

Cisco NX-OS tracks the following object types:

- Interface line protocol state—Tracks whether the line protocol state is up or down.
- Interface IP routing state—Tracks whether the interface has an IPv4 address and if IPv4 routing is enabled and active.
- IP route reachability—Tracks whether an Ipv4 route exists and is reachable from the local switch.

For example, you can configure HSRP to track the line protocol of the interface that connects one of the redundant routers to the rest of the network. If that link protocol goes down, you can modify the priority of the affected HSRP router and cause a switchover to a backup router that has better network connectivity.

Object Track List

An object track list allows you to track the combined states of multiple objects. Object track lists support the following capabilities:

- Boolean "and" function—Each object defined within the track list must be in an up state so that the track list object can become up.
- Boolean "or" function—At least one object defined within the track list must be in an up state so that the tracked object can become up.
- Threshold percentage—The percentage of up objects in the tracked list must be greater than the configured up threshold for the tracked list to be in the up state. If the percentage of down objects in the tracked list is above the configured track list down threshold, the tracked list is marked as down.
- Threshold weight—Assign a weight value to each object in the tracked list, and a weight threshold for the track list. If the combined weights of all up objects exceeds the track list weight up threshold, the track list is in an up state. If the combined weights of all the down objects exceeds the track list weight down threshold, the track list is in the down state.

Other entities, such as virtual Port Channels (vPCs) can use an object track list to modify the state of a vPC based on the state of the multiple peer links that create the vPC. See the *Cisco Nexus 6000 Series NX-OS Interfaces Configuration Guide, Release 7.x*, for more information on vPCs.

See the "Configuring an Object Track List with a Boolean Expression" section on page 19-7 for more information on track lists.

Virtualization Support

Object tracking supports Virtual Routing and Forwarding (VRF) instances. By default, Cisco NX-OS places you in the default VRF unless you specifically configure another VRF. By default, Cisco NX-OS tracks the route reachability state of objects in the default VRF. If you want to track objects in another VRF, you must configure the object to be a member of that VRF (see the "Configuring Object Tracking for a Nondefault VRF" section on page 19-13).

For more information, see Chapter 12, "Configuring Layer 3 Virtualization."

Licensing Requirements for Object Tracking

The following table shows the licensing requirements for this feature:

Product	License Requirement	
DCNM	Object tracking requires a LAN Enterprise license. For a complete explanation of the DCNM licens scheme and how to obtain and apply licenses, see the .	
Cisco NX-OS	Object tracking requires no license. Any feature not included in a license package is bundled with the Cisco NX-OS system images and is provided at no extra charge to you. For an explanation of the Cisco NX-OS licensing scheme for your platform, see the licensing guide for your platform. For a complete explanation of the Cisco NX-OS licensing scheme, see the <i>Cisco NX-OS Licensing Guide</i> .	

Prerequisites for Object Tracking

The following prerequisites are required for using this feature on Cisco DCNM. For a full list of feature-specific prerequisites, see the platform-specific documentation.

Object tracking has the following prerequisites:

- System-message logging levels for the Object Tracking feature must meet or exceed Cisco DCNM requirements. During device discovery, Cisco DCNM detects inadequate logging levels and raises them to the minimum requirements. Cisco Nexus 7000 Series switches that run Cisco NX-OS Release 4.0 are an exception. For Cisco NX-OS Release 4.0, prior to device discovery, use the command-line interface to configure logging levels to meet or exceed Cisco DCNM requirement.
- If you configure VDCs, install the Advanced Services license and enter the desired VDC (see the Cisco Nexus 7000 Series NX-OS Virtual Device Context Configuration Guide, Release 5.x).

Guidelines and Limitations

Object tracking has the following configuration guidelines and limitations:

- Supports up to 500 tracked objects.
- Supports Ethernet, subinterfaces, port channels, loopback interfaces, and VLAN interfaces.
- Supports one tracked object per HSRP group.

Platform Support

The following platform supports this feature. For platform-specific information, including guidelines and limitations, system defaults, and configuration limits, see the corresponding documentation.

Platform	Documentation
Cisco Nexus 7000 Series switches	Cisco Nexus 7000 Series Switches Documentation

Default Settings

Table 19-1 lists the default settings for object tracking parameters.

Table 19-1 Default Object Tracking Parameters

Parameters	Default
Tracked Object VRF	Member of default VRF

Configuring Object Tracking

You can access object tracking from the Routing feature selection.

For more information about the Data Center Network Manager features, see the *Cisco DCNM Fundamentals Configuration Guide, Release 5.x*

This section includes the following topics:

- Configuring Object Tracking for an Interface, page 19-4
- Configuring Object Tracking for Route Reachability, page 19-6
- Configuring an Object Track List with a Boolean Expression, page 19-7
- Configuring an Object Track List with a Percentage Threshold, page 19-9
- Configuring an Object Track List with a Weight Threshold, page 19-10
- Configuring an Object Tracking Delay, page 19-11
- Configuring Object Tracking for a Nondefault VRF, page 19-13



If you are familiar with the Cisco IOS CLI, be aware that the Cisco NX-OS commands for this feature might differ from the Cisco IOS commands that you would use.

Configuring Object Tracking for an Interface

You can configure Cisco NX-OS to track the line protocol or IPv4 routing state of an interface.

SUMMARY STEPS

1. configure terminal

pane.

- 2. track *object-id* interface *interface-type number* {ip routing | line-protocol}
- 3. (Optional) show track [object-id]
- 4. (Optional) copy running-config startup-config

DETAILED STEPS

To create a tracked object for an interface, follow these steps:

- Step 1 From the Feature Selector pane, choose Routing > Gateway Redundancy > Object Tracking.

 The available devices appear in the Summary pane.
- **Step 2** From the Summary pane, click the device that you want to configure object tracking on.
- Step 3 From the menu bar, choose Actions > New Track Object.

 The system highlights the new tracked object row in the Summary pane, and tabs update in the Details
- **Step 4** From the highlighted Track Object ID field, enter the object ID.
- **Step 5** From the Details pane, click the **Object Tracking Details** tab.
 - The Object Tracking Details tab appears.
- **Step 6** From the Object Tracking Details tab, in the Tracking Object Type drop-down list, choose **Interface**.
- **Step 7** From the Instance drop-down list, choose the interface that you want to track.
- **Step 8** From the Parameter drop-down list, choose either **IP Routing**, **IPv6 Routing**, or **Line Protocol**.
- **Step 9** From the menu bar, choose **File > Deploy** to apply your changes to the device.

	Command	Purpose
	configure terminal	Enters configuration mode.
	<pre>Example: switch# configure terminal switch(config)#</pre>	
2	<pre>track object-id interface interface-type number {ip routing line-protocol}</pre>	Creates a tracked object for an interface and enters tracking configuration mode. The <i>object-id</i> range is
	<pre>Example: switch(config) # track 1 interface ethernet 1/2 line-protocol switch(config-track#</pre>	from 1 to 500.
3	show track [object-id]	(Optional) Displays object tracking information.
	<pre>Example: switch(config-track)# show track 1</pre>	
ļ	copy running-config startup-config	(Optional) Saves this configuration change.
	<pre>Example: switch(config-track)# copy running-config startup-config</pre>	

This example shows how to configure object tracking for the line protocol state on Ethernet 1/2:

```
switch# configure terminal
switch(config)# track 1 interface ethernet 1/2 line-protocol
switch(config-track)# copy running-config startup-config
```

This example shows how to configure object tracking for the IPv4 routing state on Ethernet 1/2:

```
switch# configure terminal
switch(config)# track 2 interface ethernet 1/2 ip routing
switch(config-track)# copy running-config startup-config
```

Configuring Object Tracking for Route Reachability

You can configure Cisco NX-OS to track the existence and reachability of an IP route.

SUMMARY STEPS

- 1. configure terminal
- 2. track object-id ip route prefix/length reachability
- **3.** (Optional) **show track** [*object-id*]
- 4. (Optional) copy running-config startup-config

To create a tracked object for route reachability, follow these steps:

- Step 1 From the Feature Selector pane, choose Routing > Gateway Redundancy > Object Tracking.

 The available devices appear in the Summary pane.
- **Step 2** From the Summary pane, click the device that you want to configure object tracking on.
- Step 3 From the menu bar, choose Actions > New Track Object.

The system highlights the new tracked object row in the Summary pane, and tabs update in the Details pane.

- **Step 4** From the highlighted Track Object ID field, enter the object ID.
- Step 5 From the Details pane, click the Object Tracking Details tab.

The Object Tracking Details tab appears.

- **Step 6** From the Object Tracking Details tab, in the Tracking Object Type drop-down list, choose **IP Route**.
- **Step 7** In the Instance field, enter the prefix and network mask length that you want to track.

For IPv4, the format is A.B.C.D/length. For IPv6, the format is A:B:C::D/length.

Step 8 (Optional) From the VRF name drop-down list, choose the VRF where this route exists.

The default is the default VRF.

Step 9 From the menu bar, choose **File > Deploy** to apply your changes to the device.

DETAILED STEPS

	Command	Purpose
Step 1	configure terminal	Enters configuration mode.
	<pre>Example: switch# configure terminal switch(config)#</pre>	
Step 2	<pre>track object-id ip route prefix/length reachability</pre>	Creates a tracked object for a route and enters tracking configuration mode. The <i>object-id</i> range is from 1 to
	<pre>Example: switch(config)# track 2 ip route 192.0.2.0/8 reachability switch(config-track)#</pre>	500. The prefix format for IP is A.B.C.D/length, where the length range is from 1 to 32.
Step 3	show track [object-id]	(Optional) Displays object tracking information.
	<pre>Example: switch(config-track) # show track 1</pre>	
Step 4	copy running-config startup-config	(Optional) Saves this configuration change.
	<pre>Example: switch(config-track)# copy running-config startup-config</pre>	

This example shows how to configure object tracking for an IPv4 route in the default VRF.

```
switch# configure terminal
switch(config)# track 4 ip route 192.0.2.0/8 reachability
switch(config-track)# copy running-config startup-config
```

Configuring an Object Track List with a Boolean Expression

You can configure an object track list that contains multiple tracked objects. A tracked list contains one or more objects. The Boolean expression enables two types of calculation by using either "and" or "or" operators. For example, when tracking two interfaces using the "and" operator, up means that both interfaces are up, and down means that either interface is down.

SUMMARY STEPS

- 1. configure terminal
- 2. track track-number list boolean {and | or}
- 3. **object** object-number [**not**]
- 4. (Optional) show track
- **5.** (Optional) **copy running-config startup-config**

DETAILED STEPS

Command	Purpose
configure terminal	Enters configuration mode.
Example: switch# configure terminal switch(config)#	
<pre>track track-number list boolean {and or} Example: switch(config) # track 1 list boolean and</pre>	Configures a tracked list object and enters tracking configuration mode. Specifies that the state of the tracked list is based on a Boolean calculation. The keywords are as follows:
switch(config-track#	• and—Specifies that the list is up if all objects a up, or down if one or more objects are down. F example, when tracking two interfaces, up mea 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, a down means that both interfaces are down.
	The <i>track-number</i> range is from 1 to 500.
<pre>object object-id [not] Example: switch(config-track)# object 10</pre>	Adds a tracked object to the track list. The <i>object-ic</i> range is from 1 to 500. The not keyword optionally negates the tracked object state.
5.11051(COM115 C146.1) C2,5000 10	Note The example means that when object 10 is u the tracked list detects object 10 as down.
show track	(Optional) Displays object tracking information.
Example: switch(config-track)# show track	
copy running-config startup-config	(Optional) Saves this configuration change.
Example: switch(config-track)# copy running-config startup-config	

This example shows how to configure a track list with multiple objects as a Boolean "and":

switch# configure terminal
switch(config)# track 1 list boolean and
switch(config-track)# object 10
switch(config-track)# object 20 not

Configuring an Object Track List with a Percentage Threshold

You can configure an object track list that contains a percentage threshold. A tracked list contains one or more objects. The percentage of up objects must exceed the configured track list up percent threshold before the track list is in an up state. For example, if the tracked list has three objects, and you configure an up threshold of 60 percent, two of the objects must be in the up state (66 percent of all objects) for the track list to be in the up state.

SUMMARY STEPS

- 1. configure terminal
- 2. track track-number list threshold percentage
- 3. threshold percentage up up-value down down-value
- 4. object object-number
- 5. (Optional) show track
- 6. (Optional) copy running-config startup-config

DETAILED STEPS

	Command	Purpose
-	configure terminal	Enters configuration mode.
	<pre>Example: switch# configure terminal switch(config)#</pre>	
	track track-number list threshold percentage	Configures a tracked list object and enters tracking configuration mode. Specifies that the state of the tracked list is based on a configured threshold percent.
	<pre>Example: switch(config)# track 1 list threshold percentage switch(config-track#</pre>	The <i>track-number</i> range is from 1 to 500.
	threshold percentage up up-value down down-value	Configures the threshold percent for the tracked list. The range from 0 to 100 percent.
	<pre>Example: switch(config-track) # threshold percentage up 70 down 30</pre>	
	object object-id	Adds a tracked object to the track list. The <i>object-id</i>
	<pre>Example: switch(config-track)# object 10</pre>	range is from 1 to 500.
	show track	(Optional) Displays object tracking information.
	<pre>Example: switch(config-track)# show track</pre>	
	copy running-config startup-config	(Optional) Saves this configuration change.
	<pre>Example: switch(config-track)# copy running-config startup-config</pre>	

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
```

Configuring an Object Track List with a Weight Threshold

You can configure an object track list that contains a weight threshold. A tracked list contains one or more objects. The combined weight of up objects must exceed the configured track list up weight threshold before the track list is in an up state. For example, if the tracked list has three objects with the default weight of 10 each, and you configure an up threshold of 15, two of the objects must be in the up state (combined weight of 20) for the track list to be in the up state.

SUMMARY STEPS

- 1. configure terminal
- 2. track track-number list threshold weight
- 3. threshold weight up up-value down down-value
- 4. object object-number weight value
- 5. (Optional) show track
- 6. (Optional) copy running-config startup-config

DETAILED STEPS

	Command	Purpose
Step 1	configure terminal	Enters configuration mode.
	<pre>Example: switch# configure terminal switch(config)#</pre>	
Step 2	<pre>track track-number list threshold weight Example: switch(config) # track 1 list threshold weight switch(config-track#</pre>	Configures a tracked list object and enters tracking configuration mode. Specifies that the state of the tracked list is based on a configured threshold weight. The <i>track-number</i> range is from 1 to 500.
Step 3	threshold weight up up-value down down-value	Configures the threshold weight for the tracked list. The range from 1 to 255.
	Example: switch(config-track)# threshold weight up 30 down 10	

	Command	Purpose
Step 4	object object-id weight value	Adds a tracked object to the track list. The <i>object-id</i>
	<pre>Example: switch(config-track)# object 10 weight 15</pre>	range is from 1 to 500. The <i>value</i> range is from 1 to 255. The default weight value is 10.
Step 5	show track	(Optional) Displays object tracking information.
	<pre>Example: switch(config-track)# show track</pre>	
Step 6	copy running-config startup-config	(Optional) Saves this configuration change.
	<pre>Example: switch(config-track)# copy running-config startup-config</pre>	

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
```

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.

Configuring an Object Tracking Delay

You can configure a delay for a tracked object or an object track list that delays when the object or list triggers a stage change. The tracked object or track list starts the delay timer when a state change occurs but does not recognize a state change until the delay timer expires. At that point, Cisco NX-OS checks the object state again and records a state change only if the object or list currently has a changed state. Object tracking ignores any intermediate state changes before the delay timer expires.

For example, for an interface line-protocol tracked object that is in the up state with a 20-second donw delay, the delay timer starts when the line protocol goes down. The object is not in the down state unless the line protocol is down 20 seconds later.

You can configure independent up delay and down delay for a tracked object or track list. When you delete the delay, object tracking deletes both the up and down delay.

You can change the delay at any point. If the object or list is already counting down the delay timer from a triggered event, the new delay is computed as the following:

- If the new configuration value is less than the old configuration value, the timer starts with the new value.
- If the new configuration value is more than the old configuration value, the timer is calculated as the new configuration value minus the current timer countdown minus the old configuration value.

SUMMARY STEPS

1. configure terminal

- **2. track** *object-id* { *parameters* }
- 3. track track-number list {parameters}
- **4. delay** {**up** *up-time* [**down** *down-time*] | **down** *down-time* [**up** *up-time*]}
- 5. (Optional) show track
- 6. (Optional) copy running-config startup-config

DETAILED STEPS

	Command	Purpose
Step 1	configure terminal	Enters configuration mode.
	<pre>Example: switch# configure terminal switch(config)#</pre>	
Step 2	<pre>track object-id {parameters} Example: switch(config) # track 2 ip route 192.0.2.0/8 reachability switch(config-track) #</pre>	Creates a tracked object for a route and enters tracking configuration mode. The <i>object-id</i> range is from 1 to 500. The prefix format for IP is A.B.C.D/length, where the length range is from 1 to 32.
Step 3	<pre>track track-number list {parameters} Example: switch(config) # track 1 list threshold weight switch(config-track#</pre>	Configures a tracked list object and enters tracking configuration mode. Specifies that the state of the tracked list is based on a configured threshold weight. The <i>track-number</i> range is from 1 to 500.
Step 4	<pre>delay {up up-time [down down-time] down down-time [up up-time] } Example: switch(config-track) # delay up 20 down 30</pre>	Configures the object delay timers. The range is from 0 to 180 seconds.
Step 5	<pre>show track Example: switch(config-track) # show track 3</pre>	(Optional) Displays object tracking information.
Step 6	copy running-config startup-config	(Optional) Saves this configuration change.
	<pre>Example: switch(config-track)# copy running-config startup-config</pre>	

This example shows how to configure object tracking for a route and use delay timers:

```
switch# configure terminal
switch(config)# track 2 ip route 209.165.201.0/8 reachability
switch(config-track)# delay up 20 down 30
switch(config-track)# copy running-config startup-config
```

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

```
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)# delay up 20 down 30
```

This example shows the delay timer in the **show track** command output before and after an interface is shut down:

```
switch(config-track)# show track
Track 1
   Interface loopback1 Line Protocol
   Line Protocol is UP
   1 changes, last change 00:00:13
   Delay down 10 secs

switch(config-track)# interface loopback 1
switch(config-if)# shutdown
switch(config-if)# show track
Track 1
   Interface loopback1 Line Protocol
   Line Protocol is delayed DOWN (8 secs remaining) <----- delay timer counting down
   1 changes, last change 00:00:22
   Delay down 10 secs</pre>
```

Configuring Object Tracking for a Nondefault VRF

You can configure Cisco NX-OS to track an object in a specific VRF.

SUMMARY STEPS

- 1. configure terminal
- 2. track object-id ip route prefix/length reachability
- 3. **vrf member** *vrf-name*
- 4. (Optional) show track [object-id]
- 5. (Optional) copy running-config startup-config

DETAILED STEPS

	Command	Purpose
Step 1	configure terminal	Enters configuration mode.
	<pre>Example: switch# configure terminal switch(config)#</pre>	
Step 2	<pre>track object-id ip route prefix/length reachability</pre>	Creates a tracked object for a route and enters tracking configuration mode. The <i>object-id</i> range is from 1 to
	Example: switch(config)# track 2 ip route 192.0.2.0/8 reachability switch(config-track)#	500. The prefix format for IP is A.B.C.D/length, where the length range is from 1 to 32.

	Command	Purpose
Step 3	vrf member vrf-name	Configures the VRF to use for tracking the configured object.
	<pre>Example: switch(config-track)# vrf member Red</pre>	oojeet.
Step 4	show track [object-id]	(Optional) Displays object tracking information.
	<pre>Example: switch(config-track)# show track 3</pre>	
Step 5	copy running-config startup-config	(Optional) Saves this configuration change.
	<pre>Example: switch(config-track) # copy running-config startup-config</pre>	

This example shows how to configure object tracking for a route and use VRF Red to look up reachability information for this object:

```
switch# configure terminal
switch(config)# track 2 ip route 209.165.201.0/8 reachability
switch(config-track)# vrf member Red
switch(config-track)# copy running-config startup-config
```

This example shows how to modify tracked object 2 to use VRF Blue instead of VRF Red to look up reachability information for this object:

```
switch# configure terminal
switch(config)# track 2
switch(config-track)# vrf member Blue
switch(config-track)# copy running-config startup-config
```

Verifying the Object Tracking Configuration

To display the object tracking configuration information, perform one of the following tasks:

Command	Purpose
show track [object-id] [brief]	Displays the object tracking information for one or more objects.
show track [object-id] interface [brief]	Displays the interface-based object tracking information.
show track [object-id] ip route [brief]	Displays the IPv4 route-based object tracking information.

Viewing Client Details

To view client details for a tracked object, follow these steps:

Step 1 From the Feature Selector pane, choose Routing > Gateway Redundancy > Object Tracking.

The available devices appear in the Summary pane.

- **Step 2** From the Summary pane, click the device that you want to view tracked objects on.
- **Step 3** Click the tracked object that you want to view clients for.

The system highlights the tracked object row in the Summary pane, and tabs update in the Details pane.

Step 4 From the Details pane, click the Object Tracking Details tab.

The Object Tracking Details tab appears.

Step 5 From the Object Tracking Details tab, click the **Client Details** section.

The client details appear.

Configuration Examples for Object Tracking

This example shows how to configure object tracking for route reachability and use VRF Red to look up reachability information for this route:

```
switch# configure terminal
switch(config)# track 2 ip route 209.165.201.0/8 reachability
switch(config-track)# vrf member Red
switch(config-track)# copy running-config startup-config
```

Related Topics

See the following topics for information related to object tracking:

- Chapter 12, "Configuring Layer 3 Virtualization"
- Chapter 17, "Configuring HSRP"

Field Descriptions for Object Tracking

This section includes the following field descriptions for Object Tracking:

- Object Tracking: Details Tab: Object Tracking Details Section, page 19-15
- Object Tracking: Details Tab: Client Details Section, page 19-16

Object Tracking: Details Tab: Object Tracking Details Section

Table 19-2 Object Tracking: Details: Object Tracking Details

Field	Description
Track Object ID	Display only. Object number for the tracked object.
Tracking Object Type	Type of object to track.
Instance	IPv4 or IPv6 address or interface to track for this object.
VRF	VRF that the tracked interface exists in.

Table 19-2 Object Tracking: Details: Object Tracking Details (continued)

Field	Description
Parameter	Parameter type to track for this object.
Tracking Status	Display only. Status of the tracked object parameter.
Last status Change Time	Display only. Time the parameter last changed status for this object.

Object Tracking: Details Tab: Client Details Section

Table 19-3 Object Tracking: Details: Client Details

Field	Description
Client Name	Display only. Name of the feature that uses this tracked object.
Client Interface	Interface that uses this tracked object for the named client feature.
•	Display only. ID for the group that uses this tracked object for the named client feature.

Additional References

For additional information related to implementing object tracking, see the following sections:

- Related Documents, page 19-16
- Standards, page 19-16

Related Documents

Related Topic	Document Title
Object Tracking CLI commands	Cisco Nexus 6000 Series Command Reference, Cisco NX-OS Releases 7.x

Standards

Standards	Title
No new or modified standards are supported by this feature, and support for existing standards has not been modified by this feature.	