



# N Commands

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This chapter describes the Cisco NX-OS Fibre Channel, virtual Fibre Channel, and Fibre Channel over Ethernet (FCoE) commands that begin with N.

# npv auto-load-balance disruptive

To enable N Port Virtualization (NPV) disruptive load balancing, use the **npv auto-load-balance disruptive** command. To disable this feature, use the **no** form of this command.

**npv auto-load-balance disruptive**

**no npv auto-load-balance disruptive**

**Syntax Description** This command has no arguments or keywords.

**Command Default** None

**Command Modes** Global configuration mode

Release	Modification
5.0(2)N1(1)	This command was introduced.

**Usage Guidelines**

Disruptive load balancing can be configured only in NPV mode.

When disruptive load balancing is enabled, NPV redistributes the server interfaces across all available NP uplinks when a new NP uplink becomes operational. To move a server interface from one NP uplink to another NP uplink, NPV forces reinitialization of the server interface so that the server performs a new login to the core switch. This action causes traffic disruption on the attached end devices.

To avoid disruption of server traffic, enable this feature only after adding a new NP uplink, and then disable it again after the server interfaces have been redistributed.

**Examples** This example shows how to enable disruptive load balancing:

```
switch(config)# npv auto-load-balance disruptive
```

Command	Description
<b>feature npv</b>	Enables NPV mode.
<b>show npv status</b>	Displays the NPV current status.

# npv traffic-map

To configure an N Port Virtualization (NPV) traffic map, use the **npv traffic-map** command. To disable this feature, use the **no** form of this command.

**npv traffic-map server-interface** { **fc slot/port** | **vfc vfc-id** } **external-interface fc slot/port**

**no npv traffic-map server-interface** { **fc slot/port** | **vfc vfc-id** } **external-interface fc slot/port**

## Syntax Description

<b>server-interface</b>	Specifies the server interface or a range of server interfaces.
<b>fc slot/port</b>	Specifies the slot number and port number for a native Fibre Channel interface.
<b>vfc vfc-id</b>	Specifies a virtual Fibre Channel interface.
<b>external-interface</b>	Specifies the NP/TNP uplink interface or a range of NP/TNP uplink interfaces that can be selected by the server interface.

## Command Default

No traffic map. The switch uses automatic uplink selection to select an NP uplink for the server interface.

## Command Modes

Global configuration mode

## Command History

Release	Modification
5.0(2)N1(1)	This command was introduced.

## Usage Guidelines

This command is only available when the switch is operating in NPV mode.  
NPV traffic maps can be configured only in NPV mode.

## Examples

This example shows how to create a mapping between server interface vfc1 and NP uplink fc 3/1:

```
switch(config)# npv traffic-map server-interface vfc 1 external-interface fc 3/1
```

## Related Commands

Command	Description
<b>feature npv</b>	Enables NPV mode.
<b>show npv status</b>	Displays the NPV current status.

