



## Read-only PROFINET

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## Read-only PROFINET

The read-only PROFINET feature is a configuration mode that prevents modifications to critical network parameters, including IP address, subnet mask, gateway, device name, and factory reset settings. While write operations are restricted, the feature still allows read and identification functions. Additionally, it preserves existing configurations for LLDP, SNMP, and CDP, ensuring these services remain fully operational.

## Configure read-only PROFINET

Enable read-only PROFINET.

### Procedure

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**Step 1** Use the **configure terminal** command to enter configuration mode.

**Example:**

```
Switch# configure terminal
```

**Step 2** Use the **profinet read-only** command to enable PROFINET as read-only.

**Example:**

```
Switch(config)# profinet read-only
```

Use the **no profinet read-only** command to disable this feature.

**Step 3** (Optional) Use the **Show profinet status** command to monitor PROFINET status.

**Example:**

```
Switch# show profinet status
Profinet                : Enabled
Connection Status       : Disconnected
```

```

Vlan                : 1
Profinet ID         :
GSD version         : Unknown
Reduct Ratio        : 128
MRP                 : Enabled
MRP License Status  : Not Applicable
MRP Max Rings Allowed : 3
Profinet read-only  : Enabled

```

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## Feature history for Read-only PROFINET

*Table 1: Feature history*

Feature Name	Releases	Description
Read-only PROFINET	Cisco IOS XE 26.1.1	<p>This feature increases device security and network flexibility by placing Discovery and Configuration Protocol (DCP) operations in read-only mode. It:</p> <ul style="list-style-type: none"> <li>• Protects the IP address, gateway, and device name from changes.</li> <li>• Protects critical network settings and prevents unexpected loss of connectivity.</li> <li>• Maintains compatibility with LLDP, SNMP, and CDP.</li> <li>• Allows devices to perform identification and basic network discovery.</li> </ul>