



## FAQ and Support

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## Cisco Defense Orchestrator

### What is Cisco Defense Orchestrator?

Cisco Defense Orchestrator (CDO) is a cloud-based multi-device manager that allows network administrators to create and maintain consistent security policies across various security devices.

You can use CDO to manage these devices:

- Cisco Secure Firewall ASA
- Cisco Secure Firewall Threat Defense
- Cisco Umbrella
- Meraki
- Cisco IOS devices
- Amazon Web Services (AWS) instances
- Devices administered using an SSH connection

CDO administrators can monitor and maintain all these device types through a single interface.

# FAQ About Onboarding Devices to Cisco Defense Orchestrator

## FAQs About Onboarding Secure Firewall ASA to CDO

### How do I onboard an ASA using credentials?

You can onboard ASAs one at a time or in a bulk operation. device at a time. When onboarding an ASA that is part of a high-availability pair, use [Onboard an ASA Device](#) to onboard only the primary device of the pair. The method of onboarding a security context or admin context is the same for onboarding any other ASA.

### How do I onboard more than one ASA at a time?

You can create a list of ASAs using a CSV file, and CDO will onboard all the ASAs in the list. See [Onboard ASAs in Bulk](#) for instructions on how to bulk onboard ASAs.

### What do I do after onboarding my ASAs?

See [Managing ASA with Cisco Defense Orchestrator](#) to get started.

## FAQs About Onboarding FDM-Managed Devices to CDO

### How do I onboard FDM-managed devices?

There are different methods of onboarding an FDM-managed device. We recommend using the registration key method. See [Onboard an FDM-Managed Device](#) to get started.

## FAQs About Onboarding Secure Firewall Threat Defense to Cloud-delivered Firewall Management Center

### How do I onboard Secure Firewall Threat Defense?

You can onboard an FTD device using a CLI registration key, through low-touch provisioning, or with a serial number.

### What do I do after onboarding my Secure Firewall Threat Defense?

Once the device is synchronized, navigate to Tools & Services > Firewall Management Center and select an action from the Actions, Management, or Settings pane to begin configuring your threat defense device in cloud-delivered Firewall Management Center. See [Cloud-delivered Firewall Management Center Application Page](#) to get started.

### How do I troubleshoot my Secure Firewall Threat Defense?

See [Troubleshoot Onboarding your Secure Firewall Threat Defense](#).

## FAQs About On-Premises Secure Firewall Management Center

### How do I onboard an On-Prem management center?

You can onboard an On-Prem Management Center to CDO. Onboarding an On-Prem Management Center also onboards all of the devices registered to the On-Prem Management Center. CDO does not support creating or modifying objects or policies associated with the On-Prem Management Center or the devices registered to the On-Prem Management Center. You must make these changes in the On-Prem Management Center UI. See [Onboard an On-Prem Management Center](#) to get started.

## FAQs About Onboarding Meraki Devices to CDO

### How do I onboard a Meraki device?

MX devices can be managed by both CDO and the Meraki dashboard. CDO deploys configuration changes to the Meraki dashboard, which in turn deploys the configuration securely to the device. See [Onboard Meraki MX Devices](#) to get started.

## FAQs About Onboarding SSH Devices to CDO

### How do I onboard an SSH device?

You can use the username and password of a highly privileged user stored on the SSH device to onboard the device with a Secure Device Connector (SDC). See [Onboard an SSH Device](#) to get started.

### How do I delete a device?

You can delete a device from the inventory page.

## FAQs About Onboarding IOS Devices to CDO

### How do I onboard a Cisco IOS device?

You can onboard a live Cisco device running Cisco IOS (Internetwork Operating System) with a Secure Device Connector (SDC). See [Onboard a Cisco IOS Device](#) to get started.

### How do I delete a device?

You can delete a device from the Inventory page.

## Device Types

### What is an Adaptive Security Appliance (ASA)?

The Cisco ASA provides advanced stateful firewall and VPN concentrator functionality in one device as well as integrated services with add-on modules. The ASA includes many advanced features, such as multiple security contexts (similar to virtualized firewalls), clustering (combining multiple firewalls into a single

firewall), transparent (Layer 2) firewall or routed (Layer 3) firewall operation, advanced inspection engines, IPsec VPN, SSL VPN, and clientless SSL VPN support, and many more features. ASAs can be installed on virtual machines or supported hardware.

### **What is an ASA Model?**

An ASA model is a copy of the running configuration file of an ASA device that you have onboarded to CDO. You can use an ASA model to analyze the configuration of an ASA device without onboarding the device itself.

### **What is Firepower Threat Defense (FTD)**

Cisco's next generation firewall software image. It strives to combine the best of Sourcefire next generation firewall services and the ASA platform. It can be installed on a number of different Firepower hardware devices or virtual machines. This is not the same as a ASA FirePOWER module. See [ASA Software and Hardware Support](#) for more information.

### **What is Firepower Device Manager (FDM)**

Firepower Device Manager is Firepower Threat Defense management software delivered with the FTD image. FDM is designed to manage the one FTD it is delivered with. You may also hear FDM referred to as the "local device manager."

### **What is Firepower?**

Firepower is a general term that refers to a group of next generation firewall hardware and software.

### **When is a device Synced?**

When the configuration on CDO and the configuration stored locally on the device are the same.

### **When is a device Not Synced?**

When the configuration stored in CDO was changed and it is now different than the configuration stored locally on the device.

### **When is a device in a Conflict Detected state?**

When the configuration on the device was changed outside of CDO (out-of-band), and is now different than the configuration stored on CDO.

### **What is an out-of-band change?**

When a change is made to the device outside of CDO. The change is made directly on the device using CLI command or by using the on-device manager such as ASDM or FDM. An out-of-band change causes CDO to report a "Conflict Detected" state for the device.

### **What does it mean to deploy a change to a device?**

After you onboard a device to CDO, CDO maintains a copy of its configuration. When you make a change on CDO, CDO makes a change to its copy of the device's configuration. When you "deploy" that change back to a device, CDO copies the changes you made to the device's copy of its configuration. See these topics:

- [Preview and Deploy Configuration Changes for All Devices](#)

- [Deploy Configuration Changes from Defense Orchestrator to FTD](#)

**What ASA commands are currently supported?**

All commands. Click the **Command Line Interface** link under Device Actions to use the ASA CLI.

**Are there any scale limitations for device management?**

CDO's cloud architecture allows it to scale to thousands of devices.

**Does CDO manage Cisco Integrated Services Routers and Aggregation Services Routers?**

CDO allows you to create a model device for ISRs and ASRs and import its configuration. You can then create templates based on the imported configurations and export the configuration as a standardized configuration that can be deployed to new or existing ISR and ASR devices for consistent security.

**Can CDO manage SMA?**

No, CDO does not currently manage SMA.

## Security

**Is CDO Secure?**

CDO offers end-to-end security for customer data through the following features:

- [Initial Login to Your New CDO Tenant](#)
- Authentication calls for APIs and database operations
- Data isolation in flight and at rest
- Separation of roles

CDO requires multi-factor authentication for users to connect to their cloud portal. Multi-factor authentication is a vital function needed to protect the identity of customers.

All data, in flight and at rest, is encrypted. Communication from devices on customer premises and CDO is encrypted with SSL, and all customer-tenant data volumes are encrypted.

CDO's multi-tenant architecture isolates tenant data and encrypts traffic between databases and application servers. When users authenticate to gain access to CDO, they receive a token. This token is used to fetch a key from a key-management service, and the key is used to encrypt traffic to the database.

CDO provides value to customers quickly while making sure customer credentials are secured. This is achieved by deploying a "Secure Data Connector" in the cloud or a customer's own network (in roadmap) that controls all inbound and outbound traffic to make sure the credential data doesn't leave the customer premises.

**I received the error "Could not validate your OTP" when logging into CDO for the first time**

Check that your desktop or mobile device clock is synchronized with a world time server. Clocks being out of sync by less or more than a minute can cause incorrect OTPs to be generated.

**Is my device connected directly to Cisco Defense Orchestrator cloud platform?**

Yes. The secured connection is performed using the CDO SDC which is used as a proxy between the device and CDO platform. CDO architecture, designed with security first in mind, enables having complete separation between data traversing back and forth to the device.

**How can I connect a device which does not have a public IP address?**

You can leverage CDO [Secure Device Connector \(SDC\)](#) which can be deployed within your network and doesn't need any outside port to be open. Once the SDC is deployed you can onboard devices with internal (non-internet routable) IP addresses.

**Does the SDC require any additional cost or license?**

No.

**How can I check the tunnel status? State options**

CDO performs the tunnel connectivity checks automatically every hour, however ad-hoc VPN tunnel connectivity checks can be performed by choosing a tunnel and requesting to check connectivity. Results may take several seconds to process.

**Can I search a tunnel based on the device name as well as its IP address of one of its peers?**

Yes. Search and pivot to a specific VPN tunnel details by using available filters and search capabilities on both name and the peers IP addresses.

## Troubleshooting

**While performing complete deploy of device configuration from CDO to managed device, I get a warning "Cannot deploy changes to device". What can I do to solve that?**

If an error occurs when you deploy a full configuration (changes performed beyond CDO supported commands) to the device, click "Check for changes" to pull the latest available configuration from device. This may solve the problem and you will be able to continue making changes on CDO and deploy them. In case the issue persists, please contact Cisco TAC from the [Contact Support](#) page.

**While resolving out-of-band issue (changes performed outside of CDO; directly to a device), comparing the configuration present in CDO that of the device, CDO presents additional metadata that were not added or modified by me. Why?**

As CDO expands its functionality, additional information will be collected from the device's configuration to enrich and maintain all required data for better policy and device management analysis. These are not changes that occurred on managed device but already existing information. Resolving the conflict detected state can be easily solved by checking for changes from the device and reviewing the changes occurred.

**Why is CDO rejecting my certificate?**

See [Resolving New Certificates](#)

# Terminologies and Definitions used in Low-Touch Provisioning

- **Claimed** - Used in the context of serial number onboarding in CDO. A device is "claimed" if its serial number has been onboarded to a CDO tenant.
- **Parked** - Used in the context of serial number onboarding in CDO. A device is "parked" if it has connected to the Cisco Cloud, and a CDO tenant has not claimed its serial number.
- **Initial provisioning** - Used in the context of the initial FTD setup. During this phase, the device accepts EULA, creates a new password, configures management IP address, sets FQDN, sets DNS servers, and chooses to manage the device locally with FDM.
- **Low-touch provisioning** - It is the process of shipping an FTD from the factory to a customer site (typically a branch office), an employee at the site connects the FTD to their network, and the device contacts the Cisco Cloud. At that point, the device is onboarded to CDO tenant if its serial number has already been "claimed," or the FTD is "parked" in the Cisco cloud until a CDO tenant claims it.
- **Serial number onboarding** - It is the process of onboarding an FTD using its serial number that has already been configured (installed and setup).

## Policy Optimization

**How can I identify a case when two or more access lists (within the same access group) are shadowing each other?**

Cisco Defense Orchestrator Network Policy Management (NPM) is able to identify and alert the user if within a rule set, a rule higher in order, is shadowing a different rule. User can either navigate between all network policies or filter to identify all shadow issues.



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**Note** CDO supports only fully shadowed rules.

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## Connectivity

**The Secure Device Connector changed IP address, but this was not reflected within CDO. What can I do to reflect the change?**

In order to obtain and update the new Secure Device Connector (SDC) within CDO, you will need to restart the container using the following commands:

```
Stop Docker daemon>#service docker stop
Change IP address
Start Docker daemon >#service docker start
Restart container on the SDC virtual appliance >bash-4.2$ ./cdo/toolkit/toolkit.sh restartSDC
<tenant-name>
```

**What happens if the IP address used by CDO to manage my devices ( FTD or ASA) changes?**

If the IP address of the device changes for any reason, whether it is a change in the static IP address or a change in the IP address due to DHCP, you can change the IP address that CDO uses to connect to the device (see [Changing a Device's IP Address in CDO](#)) and then reconnect the device (see [Bulk Reconnect Devices to CDO](#)). When reconnecting the device you will be asked to enter the new IP address of the device as well as re-enter the authentication credentials.

**What networking is required to connect my ASA to CDO?**

- ASDM image present and enabled for ASA.
- Public interface access to 52.25.109.29, 52.34.234.2, 52.36.70.147
- ASA's HTTPS port must be set to 443 or to a value of 1024 or higher. For example, it cannot be set to port 636.
- If the ASA under management is also configured to accept AnyConnect VPN Client connections, the ASA HTTPS port must be changed to a value of 1024 or higher.

# Complete the Initial Configuration of a Secure Firewall Threat Defense Device Using the CLI

Connect to the device's CLI to perform initial setup, including setting the management IP address, gateway, and other basic networking settings using the setup wizard. Ensure all DNS and firewall ports are accessible for communication.

The dedicated management interface is a special interface with its own network settings. If you do not want to use the management interface, you can use the CLI to configure a data interface instead.

This configuration is ideal for devices that are going to be onboarded with their CLI registration key.




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**Note** Do **not** use this configuration procedure for devices that are onboarding with low-touch provisioning.

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**Procedure**

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- Step 1** Connect to the device's CLI, either from the console port or using SSH to the management interface. If you intend to change the network settings, we recommend using the console port so you do not get disconnected. (Firepower and Secure Firewall hardware models) The console port connects to the FXOS CLI. The SSH session connects directly to the threat defense CLI.
- Step 2** Log in with the username **admin** and the password **Admin123**. (Firepower and Secure Firewall hardware models) At the console port, you connect to the FXOS CLI. The first time you log in to FXOS, you are prompted to change the password. This password is also used for the threat defense login for SSH.



**Note** If the password was already changed, and you do not know it, you must reimage the device to reset the password to the default.

For Firepower and Secure Firewall hardware, see the [Reimage Procedures](#) in the [Cisco FXOS Troubleshooting Guide for the Firepower 1000/2100 and Secure Firewall 3100/4200 with Threat Defense](#).

**Example:**

```
firepower login: admin
Password: Admin123
Successful login attempts for user 'admin' : 1

[...]

Hello admin. You must change your password.
Enter new password: *****
Confirm new password: *****
Your password was updated successfully.

[...]

firepower#
```

**Step 3** (Firepower and Secure Firewall hardware models) If you connected to FXOS on the console port, connect to the threat defense CLI.

**connect ftd**

**Example:**

```
firepower# connect ftd
>
```

**Step 4** The first time you log in to the device, you are prompted to accept the End User License Agreement (EULA) and, if using an SSH connection, to change the admin password. You are then presented with the CLI setup script.

**Note** You cannot repeat the CLI setup wizard unless you clear the configuration; for example, by reimaging. However, all of these settings can be changed later at the CLI using **configure network** commands. See the [threat defense command reference](#).

Defaults or previously entered values appear in brackets. To accept previously entered values, press **Enter**.

**Note** The management interface settings are used even when you enable threat defense access on a data interface. For example, the management traffic that is routed over the backplane through the data interface will resolve FQDNs using the management interface DNS servers, and not the data interface DNS servers.

See the following guidelines:

- **Configure IPv4 via DHCP or manually?**—If you want to use a data interface for threat defense access instead of the management interface, choose **manual**. Although you do not plan to use the management interface, you must set an IP address, for example, a private address. You cannot configure a data interface for management if the management interface is set to DHCP, because the default route, which must be **data-interfaces** (see the next bullet), might be overwritten with one received from the DHCP server.

- **Enter the IPv4 default gateway for the management interface**—If you want to use a data interface for threat defense access instead of the management interface, set the gateway to be **data-interfaces**. This setting forwards management traffic over the backplane so it can be routed through the FMC access data interface.
- **If your networking information has changed, you will need to reconnect**—If you are connected with SSH but you change the IP address at initial setup, you will be disconnected. Reconnect with the new IP address and password. Console connections are not affected.
- **Manage the device locally?**—Enter **YES** to configure the device for the device to be managed by either the cloud-delivered Firewall Management Center or Secure Firewall device manager.  
**Manage the device locally?**—Enter **NO** to configure the device for remote management with the on-prem management center.
- **Configure firewall mode?**—We recommend that you set the firewall mode at initial configuration. Changing the firewall mode after initial setup erases your running configuration. Note that data interface threat defense access is only supported in routed firewall mode.

**Step 5** (Optional) Configure a data interface for management center access.

#### **configure network management-data-interface**

You are then prompted to configure basic network settings for the data interface.

**Note** You should use the console port when using this command. If you use SSH to the Management interface, you might get disconnected and have to reconnect to the console port. See below for more information about SSH usage.

See the following details for using this command. See [About Data Interfaces, on page 12](#) for more information.

- The original management interface cannot use DHCP if you want to use a data interface for management. If you did not set the IP address manually during initial setup, you can set it now using the **configure network {ipv4 | ipv6} manual** command. If you did not already set the management interface gateway to **data-interfaces**, this command will set it now.
- When you onboard the device for threat defense management through Cisco Defense Orchestrator, Cisco Defense Orchestrator discovers and maintains the interface configuration, including the following settings: interface name and IP address, static route to the gateway, DNS servers, and DDNS server. For more information about the DNS server configuration, see below. You can later make changes to the access interface configuration, but make sure you don't make changes that can prevent the device or Cisco Defense Orchestrator from re-establishing the management connection. If the management connection is disrupted, the device includes the **configure policy rollback** command to restore the previous deployment.
- This command sets the *data* interface DNS server. The Management DNS server that you set with the setup script (or using the **configure network dns servers** command) is used for management traffic. The data DNS server is used for DDNS (if configured) or for security policies applied to this interface.  
Also, local DNS servers are only retained if the DNS servers were discovered at initial registration. For example, if you registered the device using the Management interface, but then later configure a data interface using the **configure network management-data-interface** command, then you must manually configure all of these settings in CDO, including the DNS servers, to match the device configuration.
- You can change the management interface after you onboard the threat defense for threat defense management through threat defense, to either the management interface or another data interface.

- The FQDN that you set in the setup wizard will be used for this interface.
- You can clear the entire device configuration as part of the command; you might use this option in a recovery scenario, but we do not suggest you use it for initial setup or normal operation.
- To disable data management, enter the **configure network management-data-interface disable** command.

**Example:**

```
> configure network management-data-interface
Data interface to use for management: ethernet1/1
Specify a name for the interface [outside]:
IP address (manual / dhcp) [dhcp]:
DDNS server update URL [none]:
https://jcrichon:pa$$w0rd17@domains.example.com/nic/update?hostname=<h>&myip=<a>
Do you wish to clear all the device configuration before applying ? (y/n) [n]:

Configuration done with option to allow FMC access from any network, if you wish to change
the FMC access network
use the 'client' option in the command 'configure network management-data-interface'.

Setting IPv4 network configuration.
Network settings changed.

>
```

**Example:**

```
> configure network management-data-interface
Data interface to use for management: ethernet1/1
Specify a name for the interface [outside]: internet
IP address (manual / dhcp) [dhcp]: manual
IPv4/IPv6 address: 10.10.6.7
Netmask/IPv6 Prefix: 255.255.255.0
Default Gateway: 10.10.6.1
Comma-separated list of DNS servers [none]: 208.67.222.222,208.67.220.220
DDNS server update URL [none]:
Do you wish to clear all the device configuration before applying ? (y/n) [n]:

Configuration done with option to allow FMC access from any network, if you wish to change
the FMC access network
use the 'client' option in the command 'configure network management-data-interface'.

Setting IPv4 network configuration.
Network settings changed.

>
```

**Step 6** (Optional) Limit data interface access to Cisco Defense Orchestrator on a specific network.

**configure network management-data-interface client *ip\_address netmask***

By default, all networks are allowed.

## About Data Interfaces

You can use either the dedicated management interface or a regular data interface for communication with the device. CDO access on a data interface is useful if you want to manage the FTD remotely from the outside interface, or you do not have a separate management network. CDO supports high availability on the FTD managed remotely from the data interface.

FTD management access from a data interface has the following limitations:

- You can only enable manager access on one physical, data interface. You cannot use a subinterface or EtherChannel.
- Routed firewall mode only, using a routed interface.
- PPPoE is not supported. If your ISP requires PPPoE, you will have to put a router with PPPoE support between the FTD and the WAN modem.
- The interface must be in the global VRF only.
- SSH is not enabled by default for data interfaces, so you will have to enable SSH later using CDO. Because the management interface gateway will be changed to be the data interfaces, you also cannot SSH to the management interface from a remote network unless you add a static route for the management interface using the **configure network static-routes** command.

## How CDO Processes Personal Information

To learn how Cisco Defense Orchestrator processes your personal identifiable information, see the [Cisco Defense Orchestrator Privacy Data Sheet](#).

## Contact Cisco Defense Orchestrator Support

This chapter covers the following sections:

### Export The Workflow

We strongly recommend exporting the workflow of a device that is experience issues prior to opening a support ticket. This additional information can help the support team expeditiously identify and correct any troubleshooting efforts.

Use the following procedure to export the workflow:

#### Procedure

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- Step 1** In the navigation bar, click **Inventory**.
- Step 2** Click the **Devices** tab to locate your device.
- Step 3** Click the appropriate device type tab and select the device you need to troubleshoot.

Use the **filter** or **search bar** to locate the device you need to troubleshoot. Select the device so it is highlighted.

**Step 4** In the **Device Actions** pane, select **Workflows**.

**Step 5** Click the **Export** button located at the top right of the page, above the table of events. The file automatically saves locally as a **.json** file. Attach this to any emails or tickets you open with TAC.

## Open a Support Ticket with TAC

A customer using a 30-day trial or a licensed CDO account can open a support ticket with Cisco's Technical Assistance Center (TAC).

- [How CDO Customers Open a Support Ticket with TAC.](#)
- [How CDO Trial Customers Open a Support Ticket with TAC.](#)

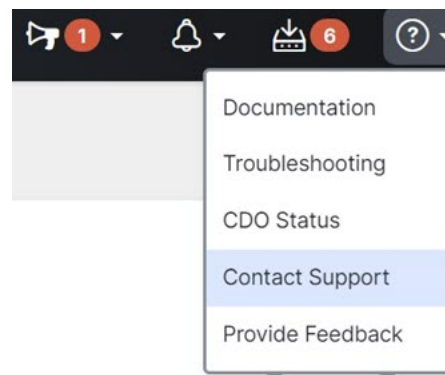
## How CDO Customers Open a Support Ticket with TAC

This section explains how a customer using a licensed CDO tenant can open a support ticket with Cisco's Technical Assistance Center (TAC).

### Procedure

**Step 1** Log in to CDO.

**Step 2** Next to your tenant name, click the help button and select **Contact Support**.



**Step 3** Click **Support Case Manager**.

**Step 4** Click the blue **Open New Case** button.

**Step 5** Click **Open Case**.

**Step 6** Select **Products and Services** and then click **Open Case**.

**Step 7** Choose a **Request Type**.

**Step 8** Expand **Find Product by Service Agreement** row.

**Step 9** Fill in all the fields. Many of the fields are obvious. This is some additional information:

- **Product Name (PID)** - If you no longer have this number, see the [Cisco Defense Orchestrator Data Sheet](#).

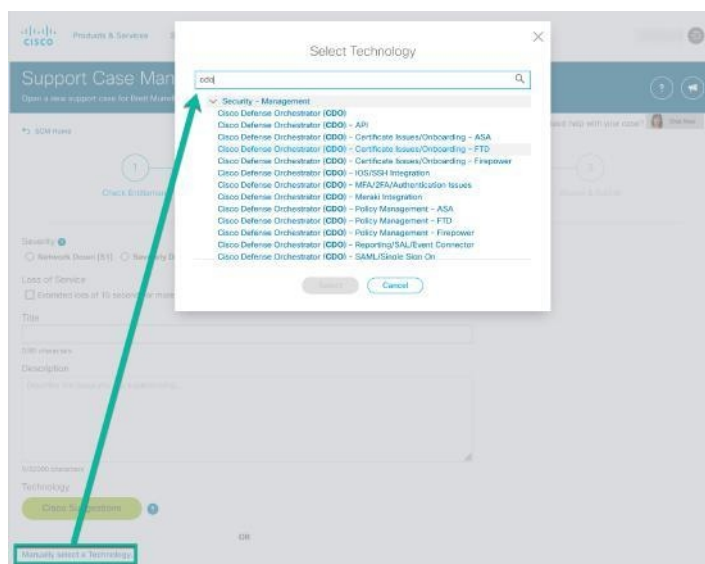
- **Product Description** - This is the description of the PID.
- **Site Name** - Enter your site name. If you are a Cisco Partner opening a case for one of your customers, enter the customer's name.
- **Service Contract** - Enter your service contract number.
  - **Important:** In order for your case to be associated with your Cisco.com account, you need to associate your contract number to your Cisco.com profile. Use this procedure to associate your contract number to your Cisco.com profile.
    - a. Open to [Cisco Profile Manager](#).
    - b. Click the **Access Management** tab.
    - c. Click **Add Access**.
    - d. Choose **TAC and RMA case creation, Software Download, support tools, and entitled content on Cisco.com** and click **Go**.
    - e. Enter service contracts number(s) in the space provided and click **Submit**. You will receive notification via email that the service contract associations have been completed. Service contract association can take up to 6 hours to complete.

**Important** Important: If you are not able to access any of the links below, please contact your authorized Cisco partner or re-seller, your Cisco account representative, or the individual in your company who manages Cisco service agreement information.

**Step 10** Click **Next**.

**Step 11** In the **Describe Problem** screen, scroll down to **Manually select a Technology**, click it, and type **CDO** in the search field.

**Step 12** Select the category that best matches your request, and click **Select**.



- Step 13** Complete the remainder of the service request and click **Submit**.
- 

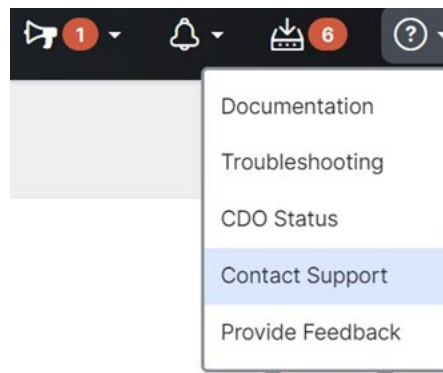
## How CDO Trial Customers Open a Support Ticket with TAC

This section explains how a customer using a free trial of a CDO tenant can open a support ticket with Cisco's Technical Assistance Center (TAC).

### Procedure

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- Step 1** Log in to CDO.
- Step 2** Next to your tenant and account name, click the help button and select **Contact Support**.



- Step 3** In the **Enter Issue or request below** field, specify the issue that you are facing or your request and click **Submit**.

Your request, along with the technical information, will be sent to the support team, and a technical support engineer will respond to your query.

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## CDO Service Status Page

CDO maintains a customer-facing service status page that shows you if the CDO service is up and any service interruptions it may have had. You can view up-time information with daily, weekly, or monthly graphs.

You can reach the CDO status page by clicking [CDO Status](#) in the help menu on any page in CDO.

On the status page, you can click the **Subscribe to Updates** to receive a notification if the CDO service goes down.

