



# Reports

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## About Reports

You can utilize data from the **Reports** feature to derive insights into your network and its operation. By reporting this data in several formats and providing flexible scheduling and configuration options, both data and reports are easily customized to meet your operational needs.

The **Reports** feature supports the following use cases:

- Capacity planning: Understanding how devices within your network are being utilized.
- Change of pattern: Tracking how usage pattern trends change on the network. Usage pattern trends may include clients, devices, bands, or applications.
- Operational reporting: Reviewing reports about network operations, such as upgrade completions or provisioning failures.
- Network health: Determining the overall health of your network through reports.



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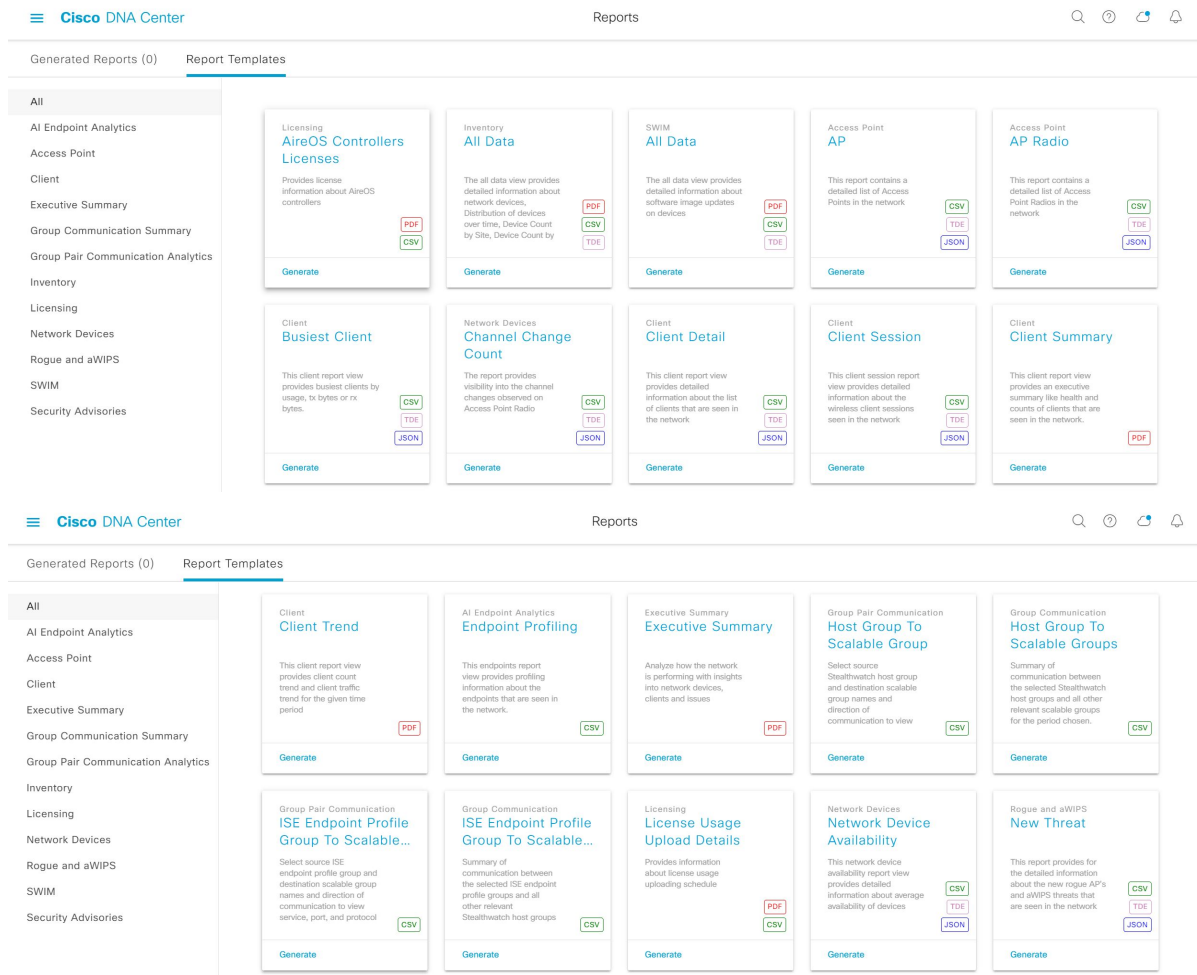
**Note** New use cases for **Reports** will be added in future releases. Review future Cisco DNA Center platform release notes for information.

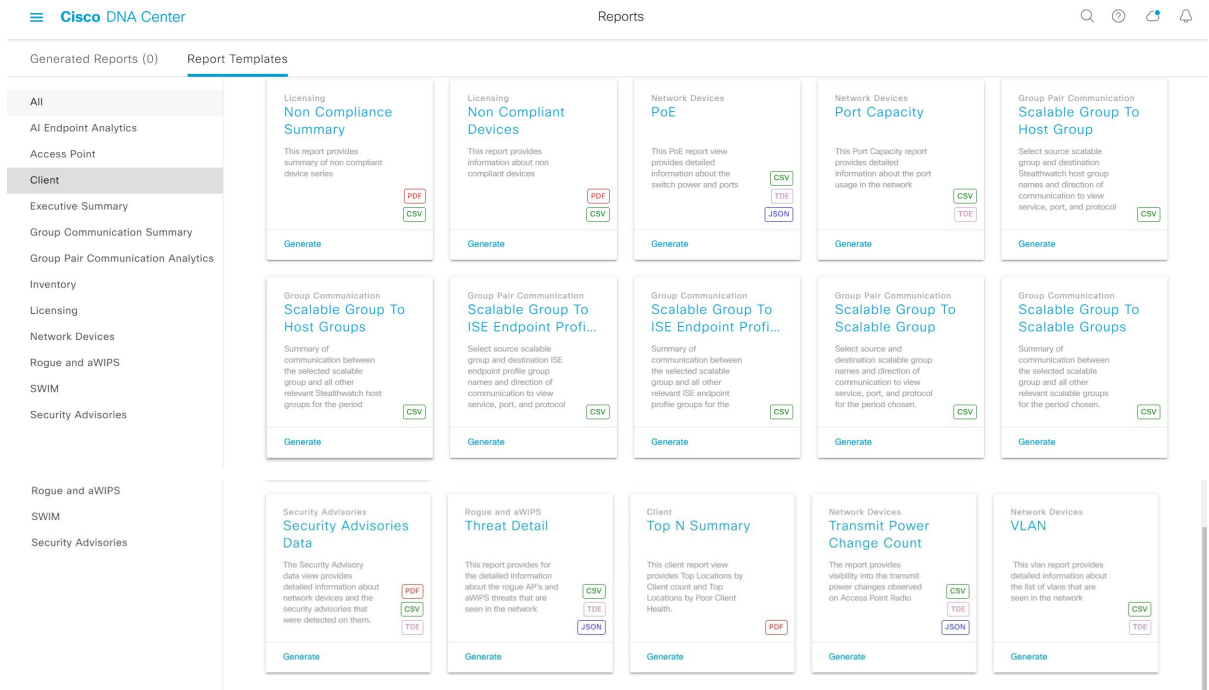
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# Run Your First Report

Perform this procedure to begin running specialized data reports about your network. You can configure data reports using the **Reports** window in the Cisco DNA Center GUI.

**Figure 1: Reports Window**





**Before you begin**

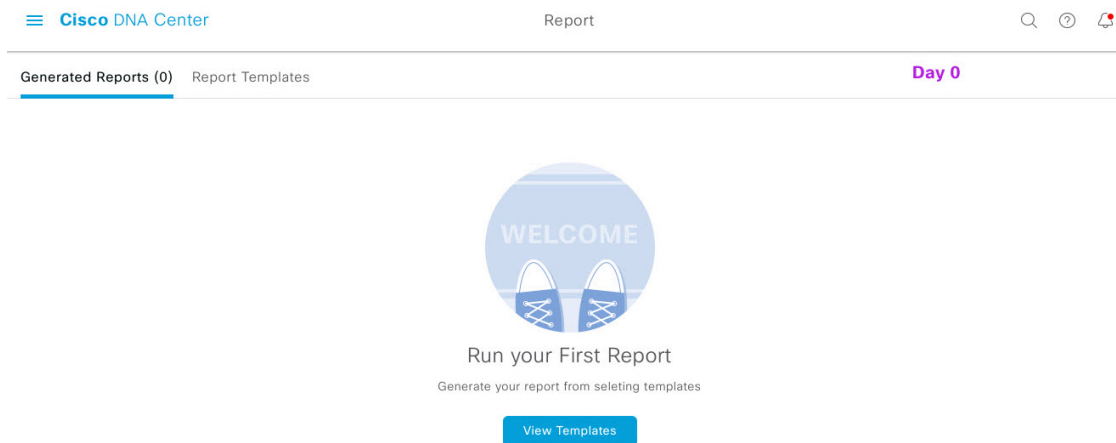
- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks as described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), click **Provision** > **Inventory** to view the results.

**Step 1**

In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports**.

A **Run Your First Report** window appears.

Figure 2: Run Your First Report Window



**Step 2** Click **Start**.

The **Report Templates** window opens and displays the supported reporting categories in a slide-in pane. A link represents each category. Click a link to view only the supported reports for that category.

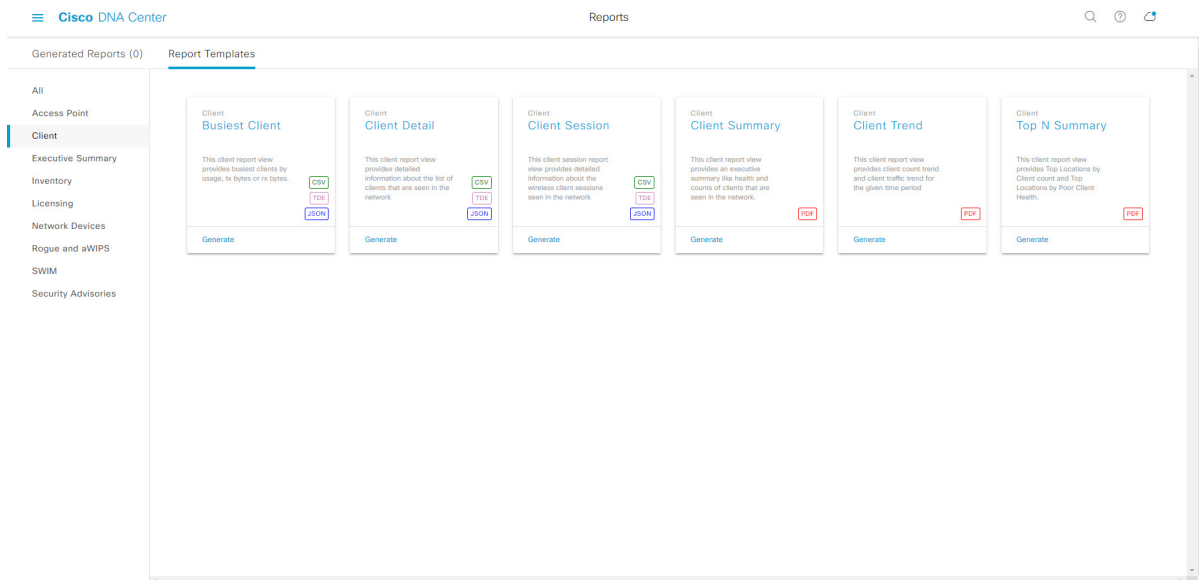
For this release, reporting is supported for the following categories:

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

**Note** For this procedure and as an example, **Clients** is selected. Available options for the reports and displayed in the GUI are dependent upon the type of report selected.

**Step 3** After clicking on a link, review the **Report Templates** window for that selected category.

Figure 3: Reports Templates Window



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for a **Client** report you can create a **Client Summary**, **Client Detail**, **Top N Summary**, **Client Trend**, or **Client Session** report. Within each tile are also icons that represent the supported file types for the reports (PDF, CSV, TDE, or JSON).

**Step 4** In the tile, click the header to view a sample report.

A **Preview** window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report. The following data is presented:

- Applied filters (data filters that were used to build the report).
- Data metrics and summaries
- Graphical representation of the data (including line, bar, and pie graphs).
- Tables that assist you in analyzing the data.

**Note** You can use the sample report to plan how you want your report to look.

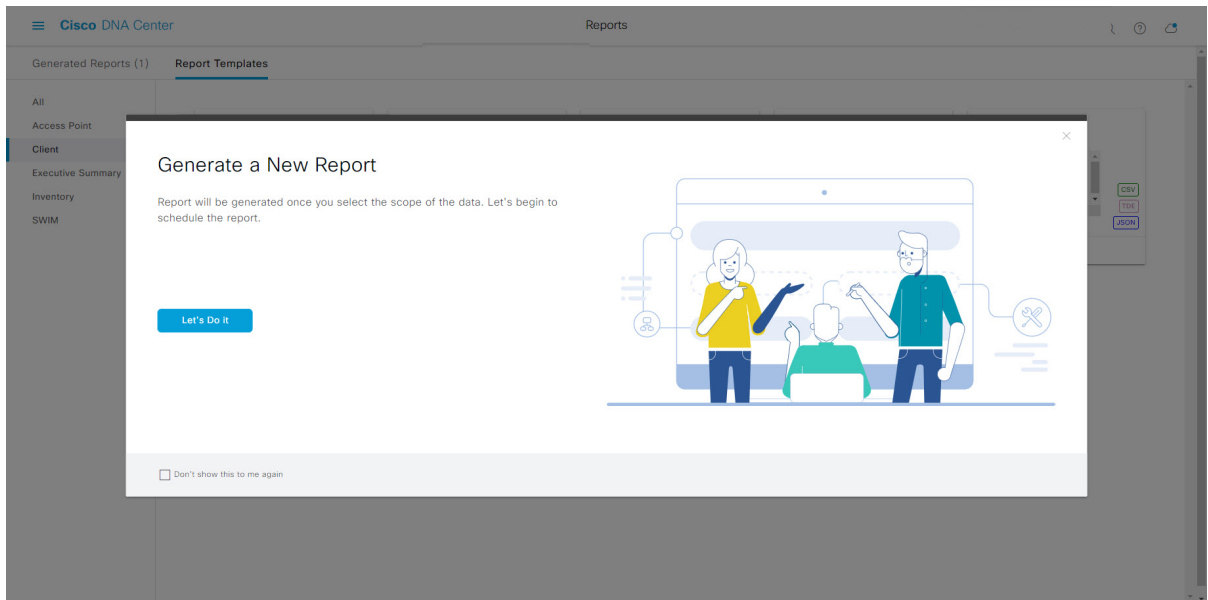
**Step 5** Click **X** to close the preview.

**Step 6** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 7** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 4: Generate a New Report**



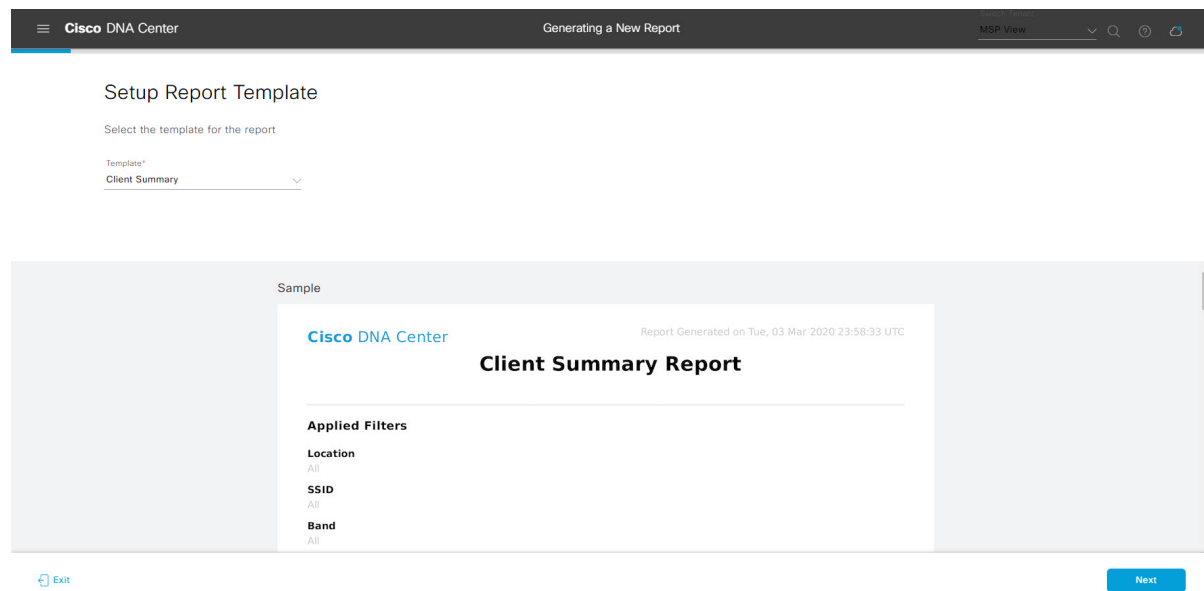
The **Select Report Template** window opens.

**Step 8** In the **Select Report Template** window, select the template for the report.

The **Template** consists of the individual report types within the categories for the release.

You can review an autogenerated sample in the same window.

**Figure 5: Setup Report Template**



Click **Next** to proceed. The **Setup Report Scope** window opens.

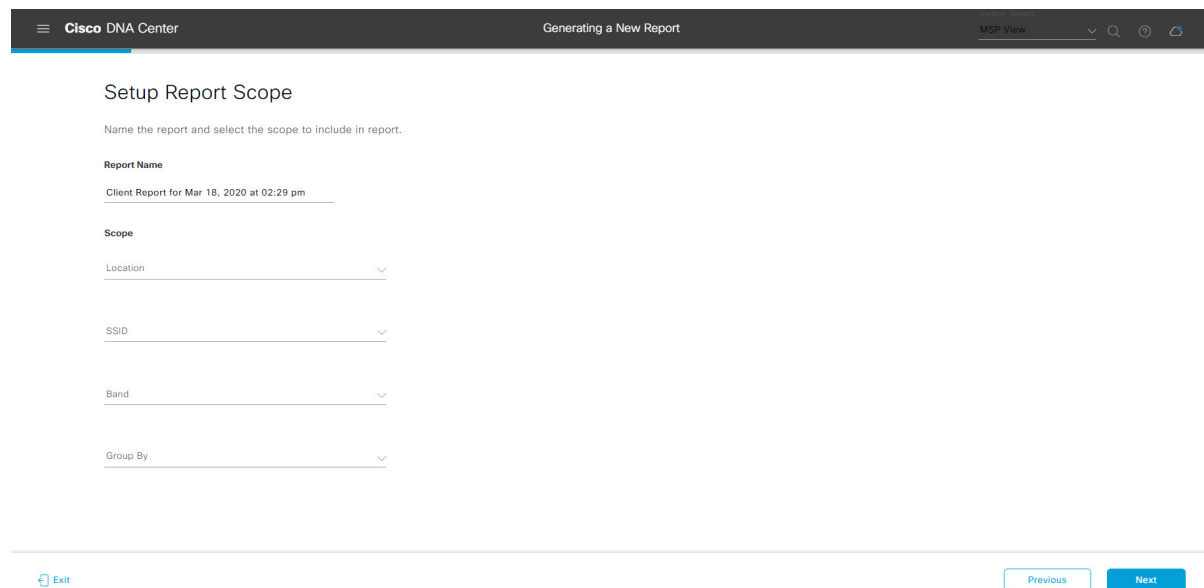
## Step 9

In the **Setup Report Scope** window, enter a name for the report and select the scope.

Enter a report name in the **Report Name** field and click in the **Scope** field to display the available filter. Click the filter options that you want for the report.

**Note** The **Setup Report Scope** options change depending upon the selected **Template Group**.

**Figure 6: Setup Report Scope**



Click **Next** to proceed. The **Select File Type** window opens.

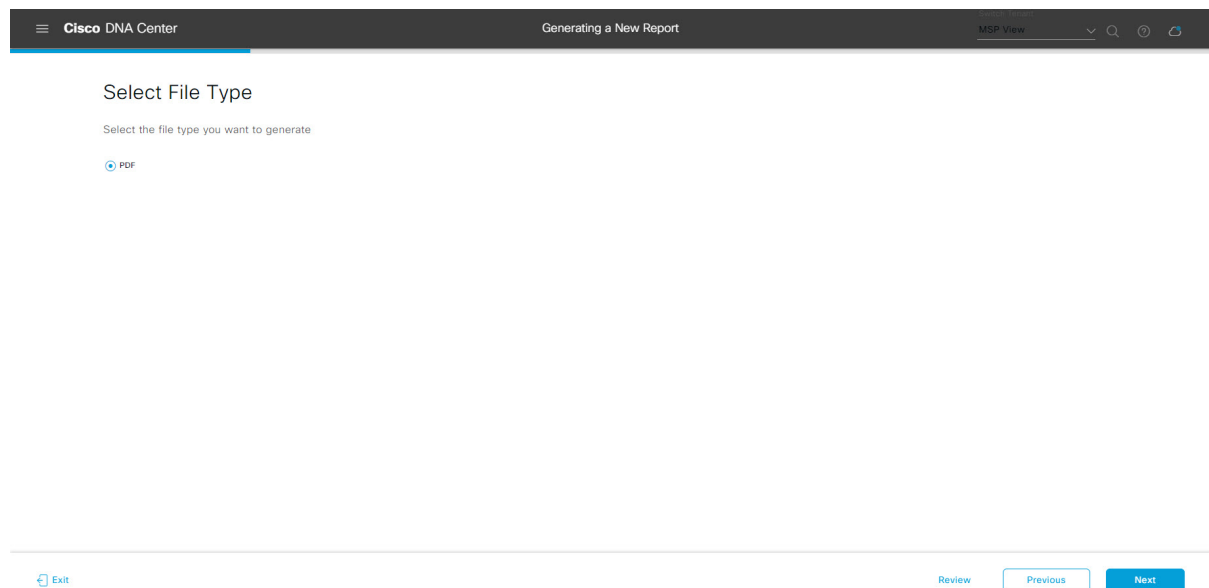
**Step 10** In the **Select File Type** window, select the file type for the report.

Depending upon the report that you are creating, the following **File Type** options may be available:

- PDF
- CSV
- Tableau Data Extract
- JSON

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option displays that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

*Figure 7: Select File Type*



Click **Next** to proceed. The **Schedule Report** window opens.

**Step 11** In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- Last 3 hours
- Last 24 hours
- Last 7 days
- Custom

**Note** Clicking **Custom** opens up fields where you can choose the date and time interval per the specific report type, as well as the time zone (GMT) for the time range.

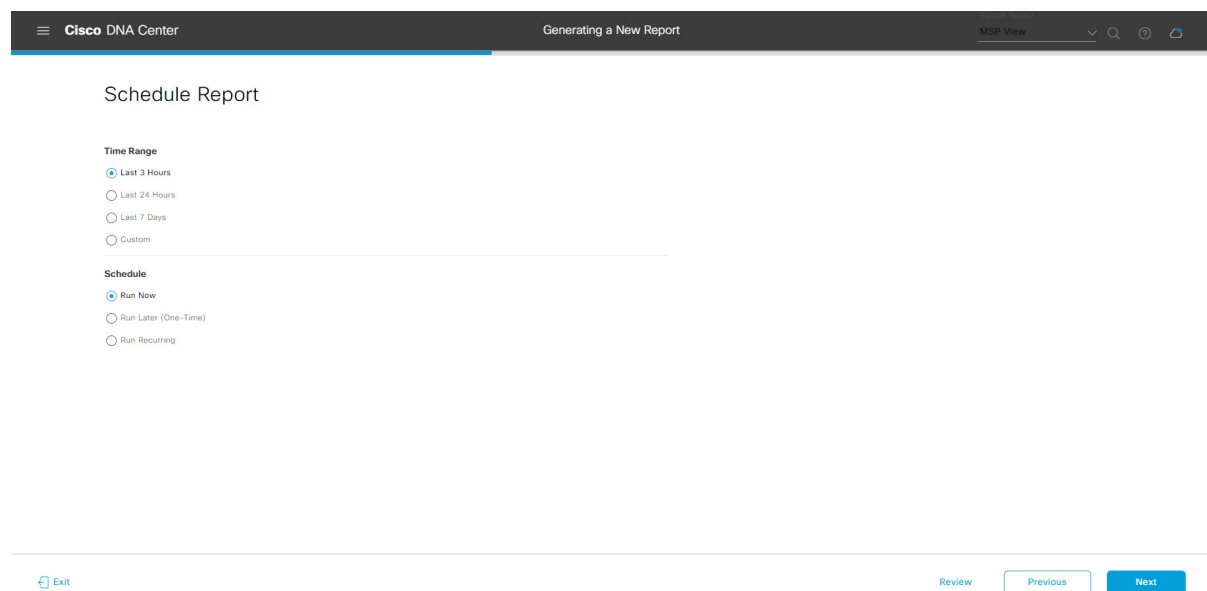
The following **Schedule** options are available:

- **Run Now**
- **Run Later**
- **Run Recurring**

You can also select a time zone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 8: Schedule Report**



Click **Next** to proceed. The **Delivery and Notification** window opens.

## Step 12

In the **Delivery and Notification** window, select the Delivery mechanism for the report.

The options include:

- **No delivery/notification:** No email or webhook notifications sent.
- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not yet configured an SMTP server for the emails, you will be prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure a SMTP server. Click **System > Settings > External Services > Destinations > Email** tab.

- **Link:** The email notification of a successfully compiled report has a link back to itself and the **Generated Reports** page under **Reports**. You can view and download the report from this link and location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.



- **Attachment:** Report is attached to the email notification.

**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

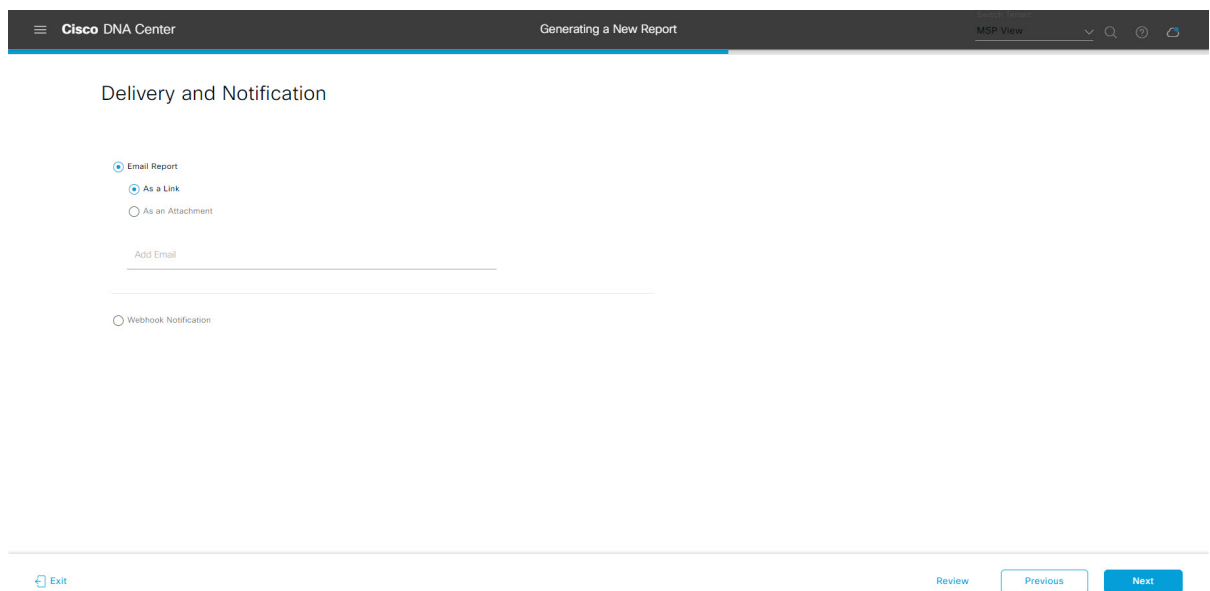
Cisco DNA Center sends out the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down list (**Subscription Profile** field).

**Note** If you have not yet created a webhook, you will be prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System** > **Settings** > **External Services** > **Destinations** > **Webhook** tab.

You will receive status webhook notifications for the report. For example, you will receive "In Queue", "In Progress", and "Success" webhook notifications. You will also be able to view these notifications in the GUI.

**Figure 9: Delivery and Notification**

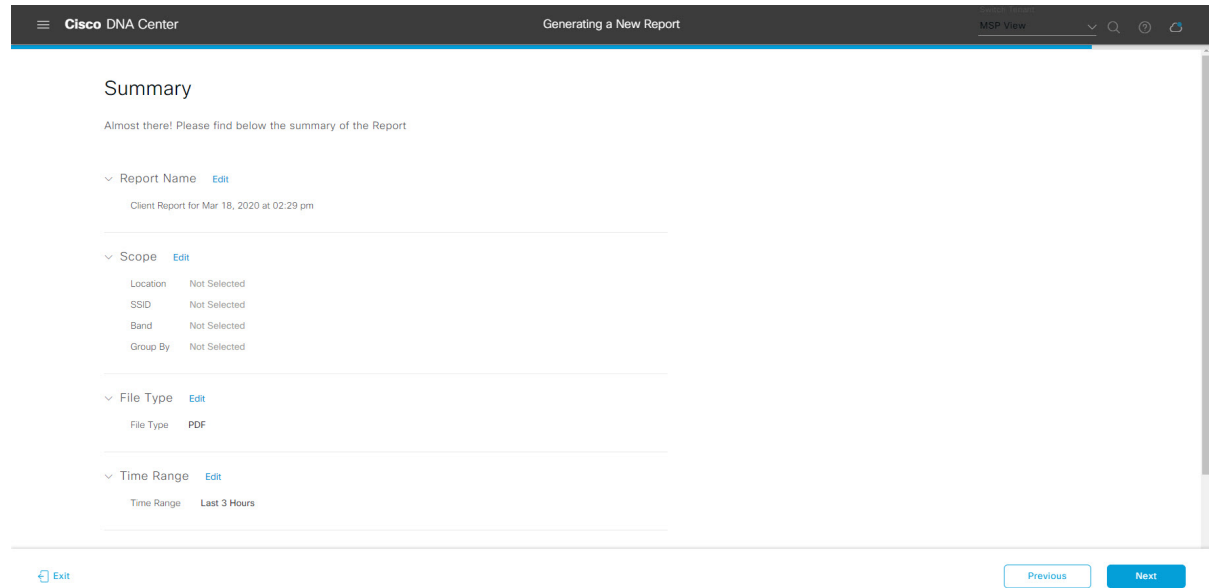


Click **Next** to proceed. The **Summary** window opens.

**Step 13**

In the **Summary** window, review the configuration and if necessary edit any of the files.

Figure 10: Summary



Click the **Next** button.

After the report is generated, a success window appears.

#### Step 14

Click the **View the Generated Reports** link.

The **Generated Reports** window opens with instance details of the report that was scheduled.

Figure 11: Generated Reports

The screenshot shows the 'Generated Reports' page in Cisco DNA Center. The table displays the following data:

Report Name	Schedule	Last Run	Reports	Format	Template Category	Report Template	Actions
Client Report for Mar 18, 2020 at 02:29 pm	One-Time on Mar 18, 2020 at 2:22 pm	In Queue	1	PDF	Client	Client Summary	⋮
Client Report for Mar 16, 2020 at 03:13 pm	One-Time on Mar 16, 2020 at 3:13 pm	Mar 16, 2020 at 3:14 pm	1	CSV	Client	Client Detail	⋮

### What to do next

Proceed to review your report instance in **Generated Reports** window.

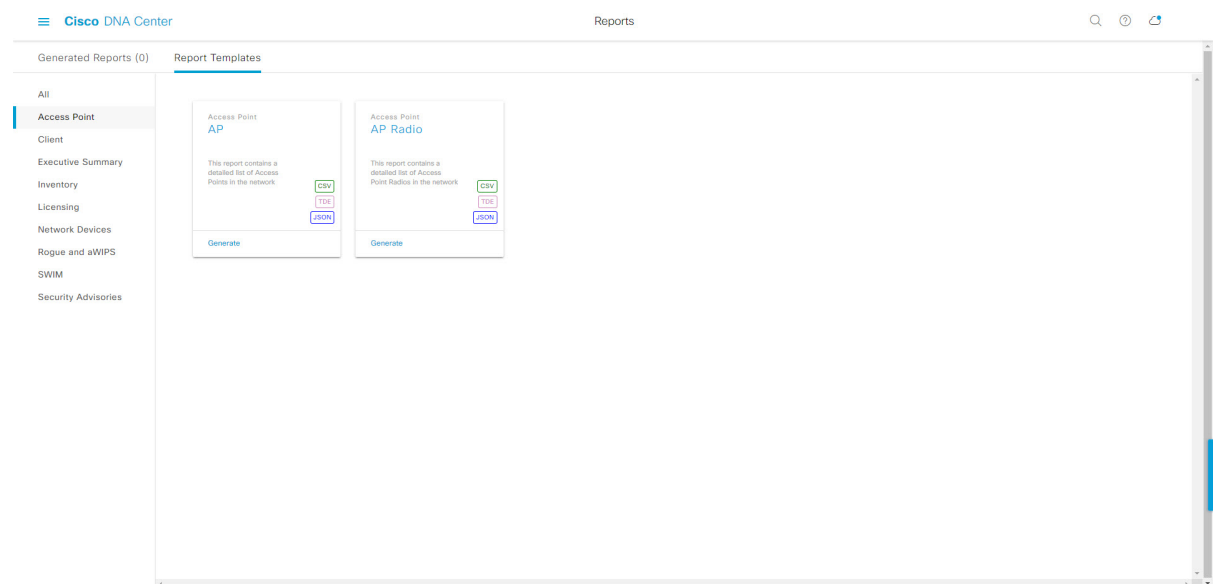


**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## Run an Access Point Report

Perform this procedure to configure **Access Point** reports for your network. You can configure **Access Point** reports using the **Reports** window in the Cisco DNA Center GUI.

**Figure 12: Access Point Reports**



### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks as described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), choose **Provision** > **Inventory** to view the results.

**Step 1** In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports** > **Report Templates**.

The **Report Templates** window opens and displays the supported reporting categories. A link represents each category. Click a link to view only the supported reports for that category.

For this release, reporting is supported for the following categories:

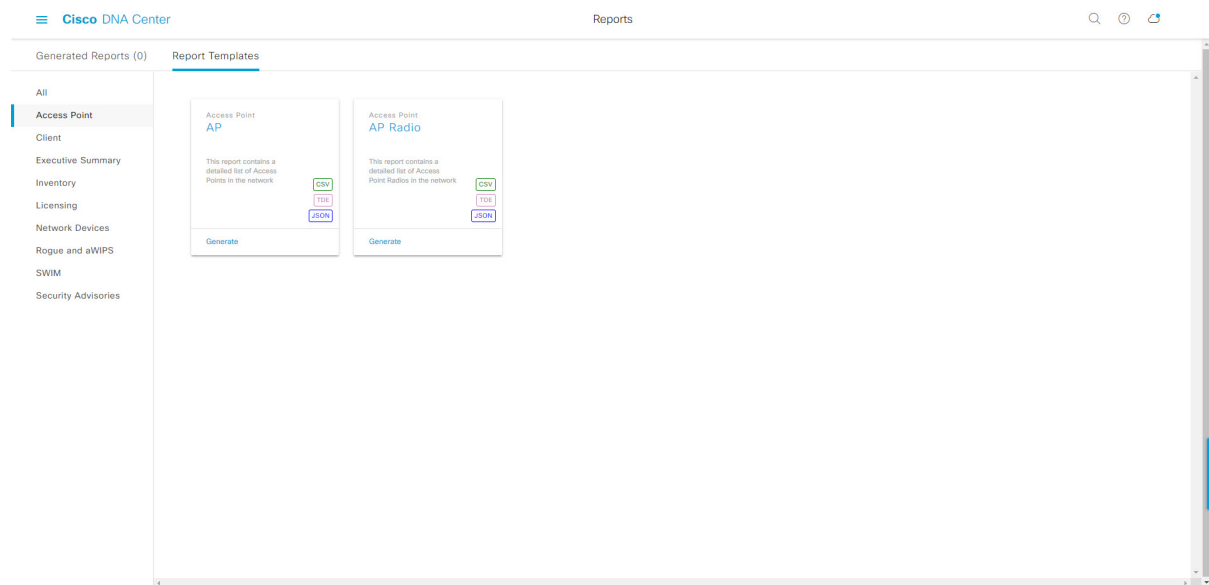
- **Access Point:** Reports that provide data about Access Points and Access Point Radios.
- **Client:** Reports that help with analyzing how the clients are performing in the network.
- **Executive Summary:** Report that helps with analyzing how devices, applications, and clients are performing in the network.
- **Inventory:** Report listing devices discovered by Cisco DNA Center.
- **Licensing:** Reports that lists devices that noncompliant devices and the reasons for noncompliance.
- **Network Devices:** Reports that provide data about the devices within your network.
- **Rogue and aWIPS:** Reports that provide data about threats within your network.
- **SWIM:** Report listing all the devices in network with software and versioning.
- **Security Advisories:** Report that provides Cisco security advisory information on the network devices.

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

## Step 2

After clicking a link, review the **Report Templates** window for that selected category.

**Figure 13: Report Templates Window**



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for an **Access Point** report you can create an **AP** or **AP Radio** report. Within each tile are also icons that represent the supported file types for the reports (CSV, TDE, or JSON).

## Step 3

In the tile, click the header to view a sample report.

A window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report.

**Note** You can use the sample report to plan how you want your report to look.

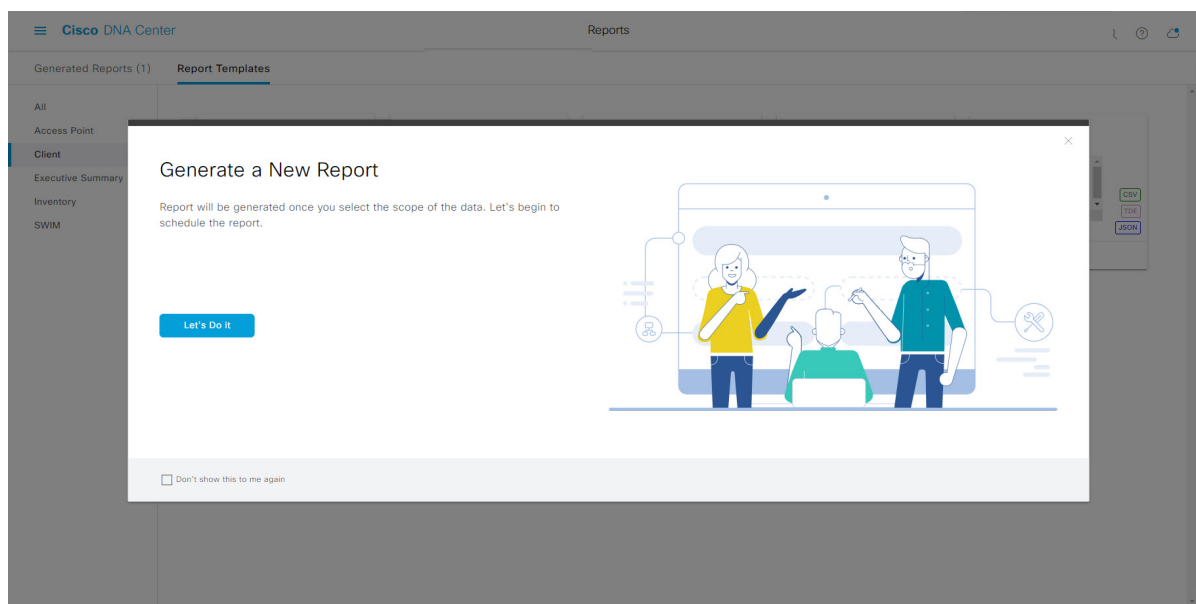
**Step 4** Click **X** to close the preview.

**Step 5** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 6** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 14: Generate a New Report**



The **Select Report Template** window opens.

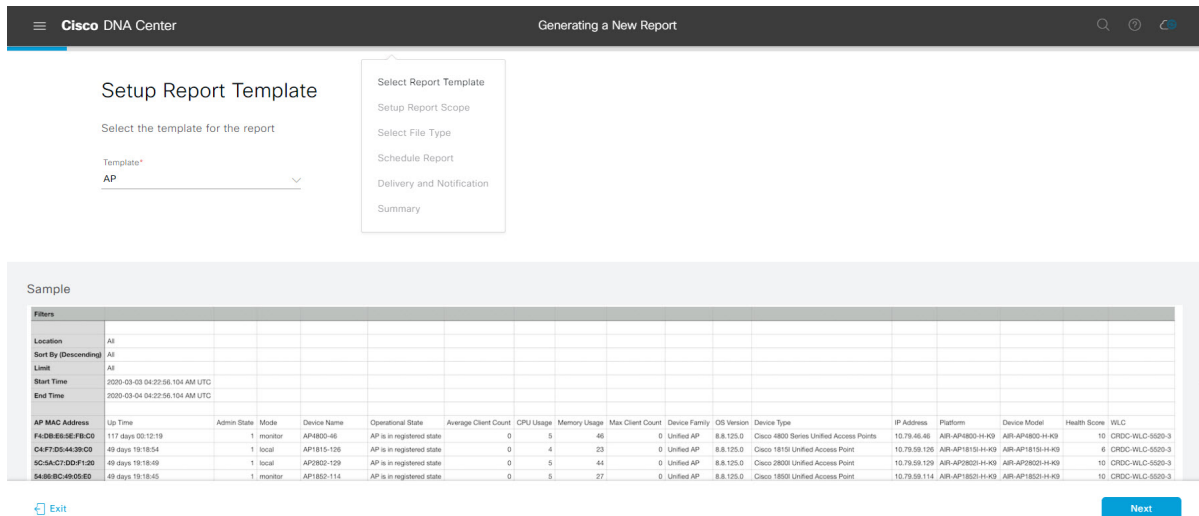
**Step 7** In the **Select Report Template** window, select the template for the report.

Choose the **Template** from the drop-down lists.

**Note** The **Template** consists of the individual report types within the categories for the release.

You can review an autogenerated sample in the same window.

Figure 15: Setup Report Template



Click **Next** to proceed. The **Setup Report Scope** window opens.

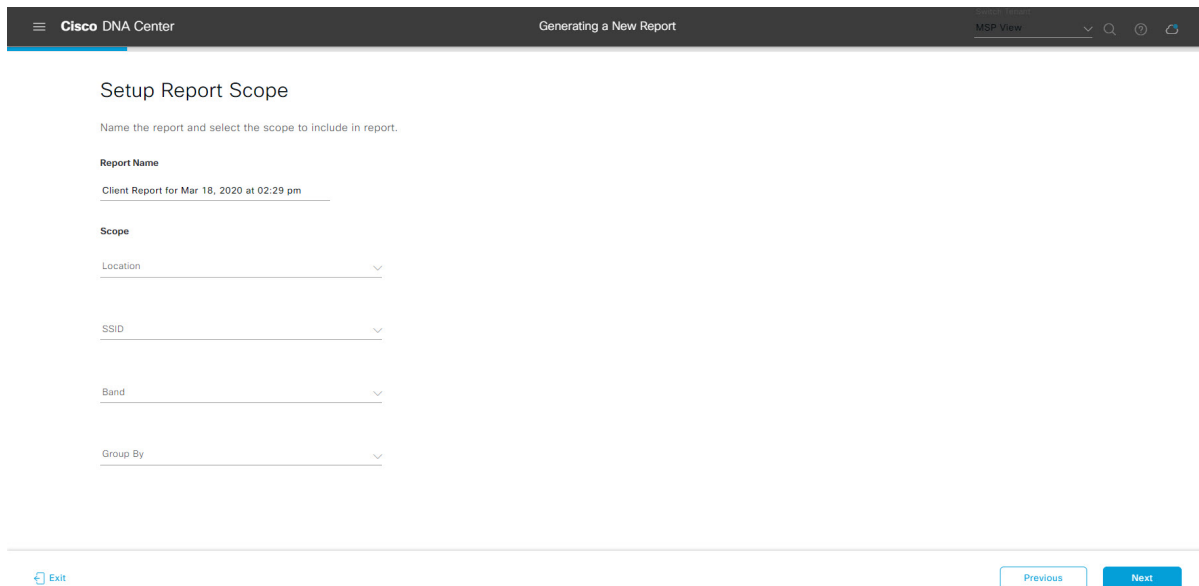
**Step 8**

In the **Setup Report Scope** window, name the report and select the scope.

Enter a report name in the **Report Name** field and click in the **Scope** field to display the available filter. Click the filter options that you want for the report.

**Note** The **Setup Report Scope** options change depending upon the selected **Template**.

Figure 16: Setup Report Scope



Click **Next** to proceed. The **Select File Type** window opens.

**Step 9**

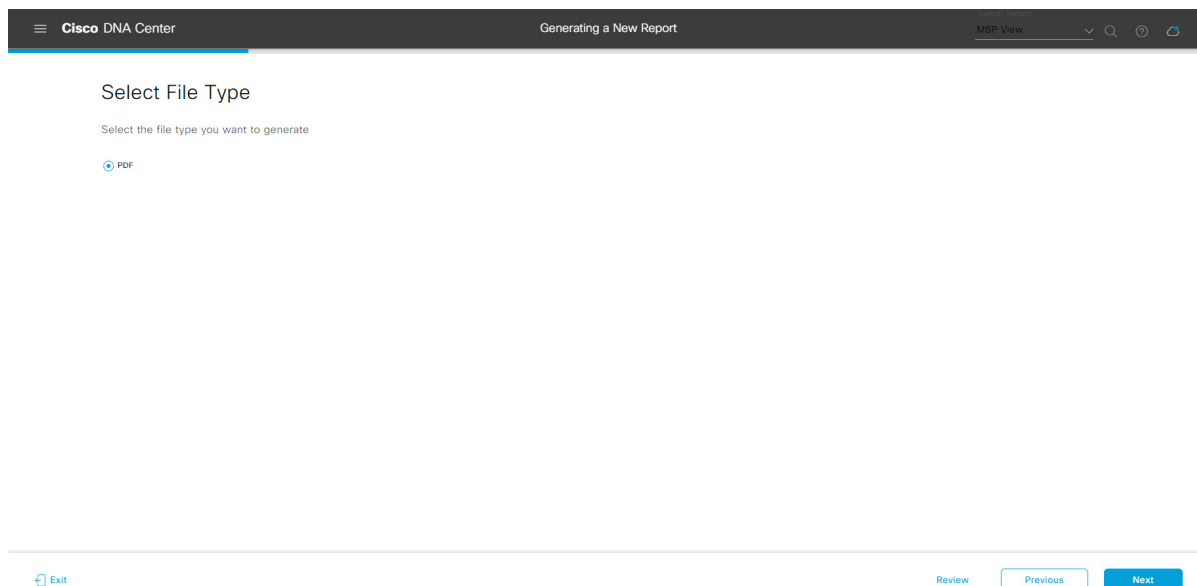
In the **Select File Type** window, select the file type for the report.

Depending upon the report that you are creating, the following **File Type** options may be available:

- **PDF**
- **CSV**
- **Tableau Data Extract**
- **JSON**

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option displays that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

**Figure 17: Select File Type**



Click **Next** to proceed. The **Schedule Report** window opens.

#### **Step 10**

In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- **Last 3 hours**
- **Last 24 hours**
- **Last 7 days**
- **Custom**

**Note** Clicking **Custom** opens up fields where you can choose the date and time interval per the specific report type, as well as the time zone (GMT) for the time range.

The following **Schedule** options are available:

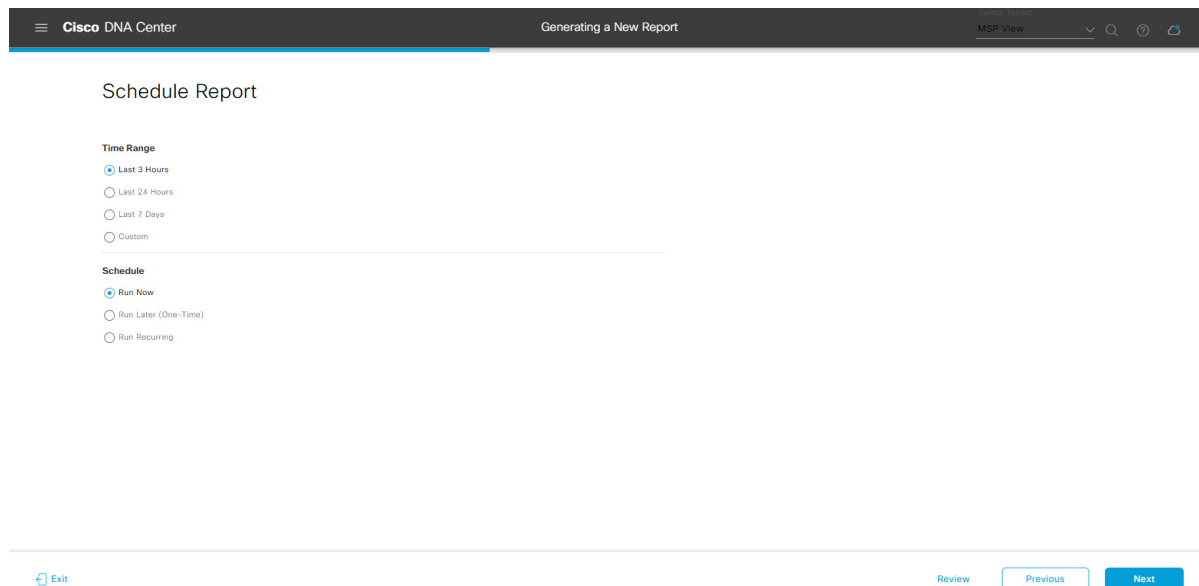
- **Run Now**
- **Run Later**

- **Run Recurring**

You can also select a time zone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 18: Schedule Report**



Click **Next** to proceed. The **Delivery and Notification** window opens.

### Step 11

In the **Delivery and Notification** window, select the Delivery mechanism for the report.

The options include:

- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not yet configured an SMTP server for the emails, you will be prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure a SMTP server. Click **System > Settings > External Services > Destinations > Email** tab.

- **Link:** The email notification of a successfully compiled report has a link back to itself and the **Generated Reports** page under **Reports**. You can view and download the report from this link and location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

- **Attachment:** Report is attached to the email notification.



**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

Cisco DNA Center sends out the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down list (**Subscription Profile** field).
- Note** If you have not yet created a webhook, you will be prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System** > **Settings** > **External Services** > **Destinations** > **Webhook** tab.

You will receive status webhook notifications for the report. For example, you will receive "In Queue", "In Progress", and "Success" webhook notifications. You will also be able to view these notifications in the GUI.

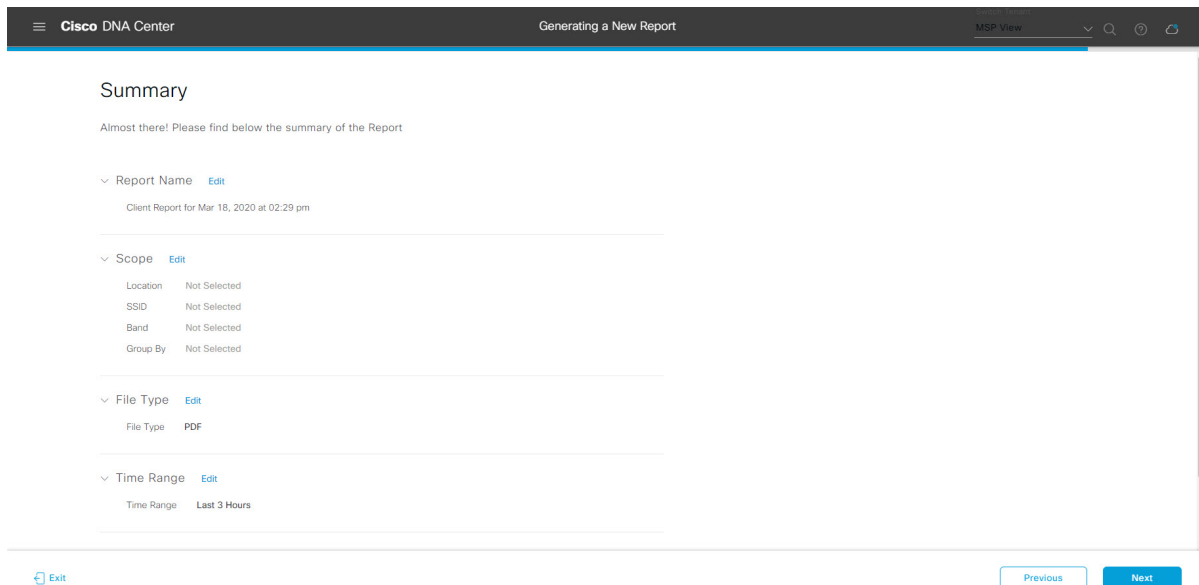
**Figure 19: Delivery and Notification**

The screenshot shows the Cisco DNA Center interface for configuring report delivery and notification. The page title is "Generating a New Report". Under the "Email Report" section, the "As a Link" radio button is selected. Below this, there is an "Add Email" input field. Under the "Webhook Notification" section, the radio button is unselected. At the bottom of the page, there are four buttons: "Exit", "Review", "Previous", and "Next".

Click **Next** to proceed. The **Summary** window opens.

**Step 12** In the **Summary** window, review the configuration and if necessary edit any of the files.

Figure 20: Summary



Click the **Next** button.

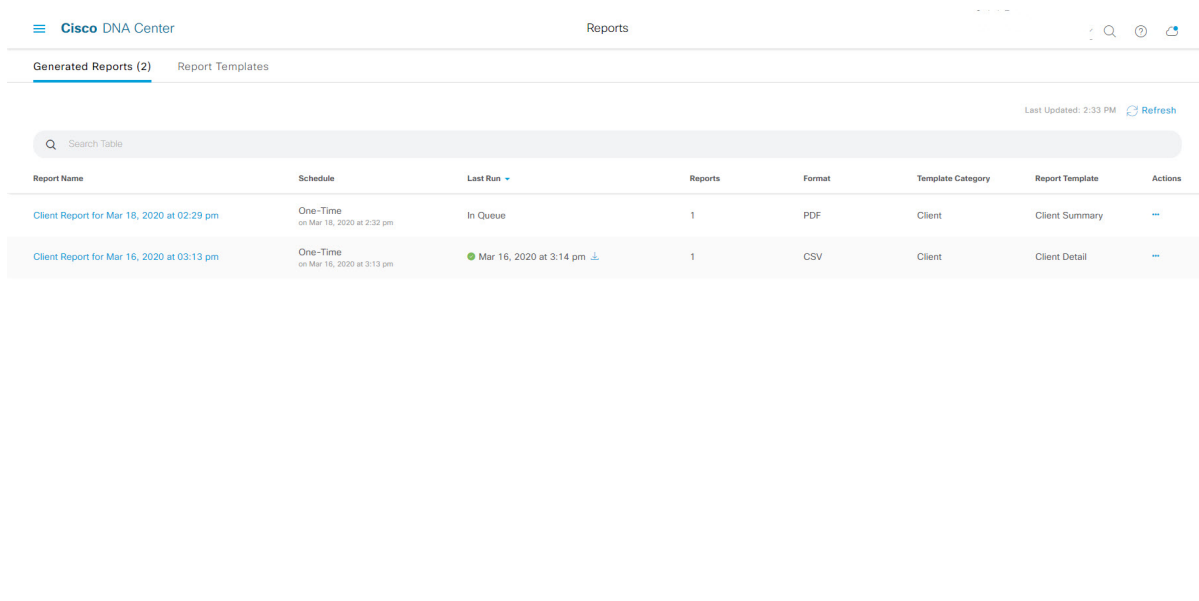
After the report is generated, a success window appears.

**Step 13**

Click the **View the Generated Reports** link.

The **Generated Reports** window opens with instance details of the report that was scheduled.

Figure 21: Generated Reports



### What to do next

Proceed to review your report instance in **Generated Reports** window.

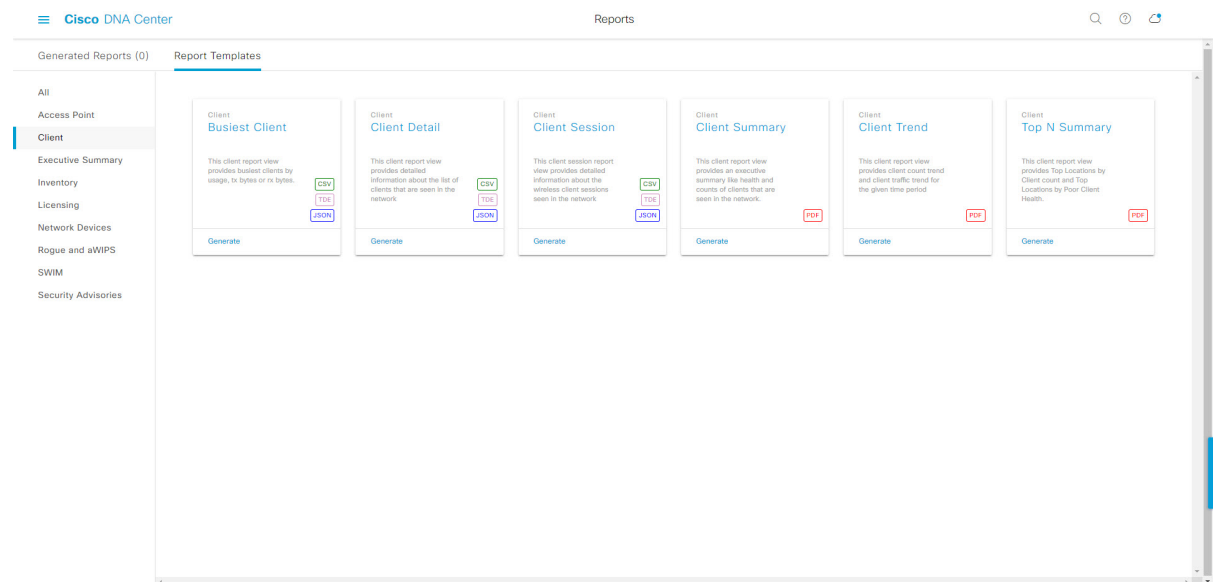


**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## Run a Client Report

Perform this procedure to configure specialized **Client** reports for your network. You can configure **Client** reports using the **Reports** window in the Cisco DNA Center GUI.

**Figure 22: Client Reports**



### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks as described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Provision > Inventory** to view the results.

### Step 1

In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports > Report Templates**.

The **Report Templates** window opens and displays the supported reporting categories. A link represents each category. Click a link to view only the supported reports for that category.

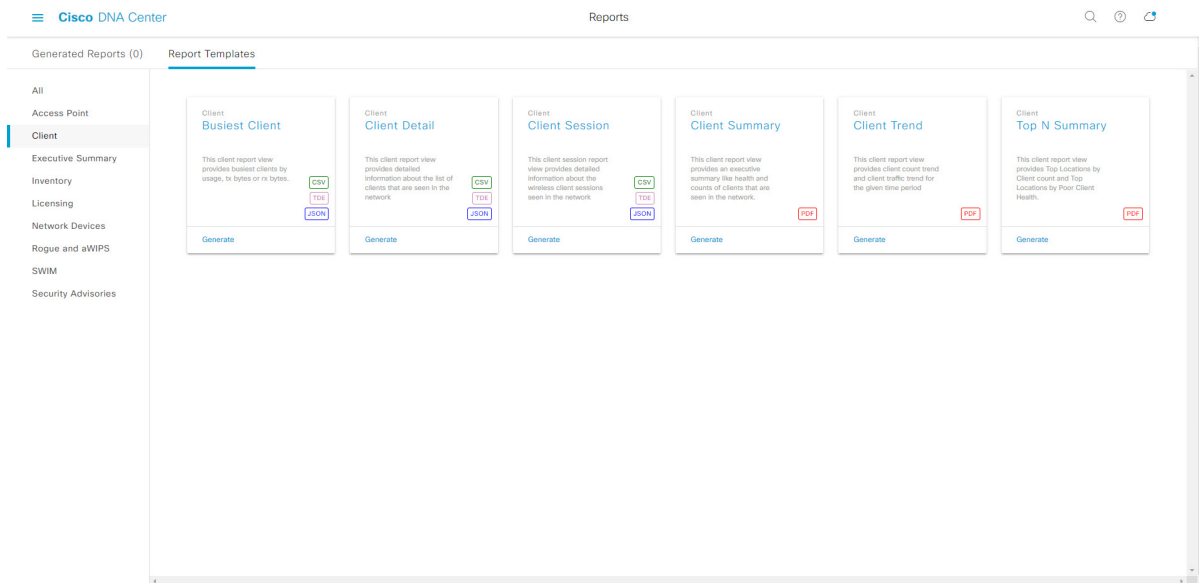
For this release, reporting is supported for the following categories:

- **Access Point:** Reports that provide data about Access Points and Access Point Radios.
- **Client:** Reports that help with analyzing how the clients are performing in the network.
- **Executive Summary:** Report that helps with analyzing how devices, applications, and clients are performing in the network.
- **Inventory:** Report listing devices discovered by Cisco DNA Center.
- **Licensing:** Reports that lists devices that noncompliant devices and the reasons for noncompliance.
- **Network Devices:** Reports that provide data about the devices within your network.
- **Rogue and aWIPS:** Reports that provide data about threats within your network.
- **SWIM:** Report listing all the devices in network with software and versioning.
- **Security Advisories:** Report that provides Cisco security advisory information on the network devices.

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

**Step 2** After clicking on a link, review the **Report Templates** window for that selected category.

**Figure 23: Reports Templates Window**



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for a **Client** report you can create a **Busiest Client**, **Client Summary**, **Client Detail**, **Top N Summary**, **Client Trend**, or **Client Session** report. Within each tile are also icons that represent the supported file types for the reports (PDF, CSV, TDE, or JSON).

**Step 3** In the tile, click the header to view a sample report.

A window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report. For some of the client reports, the following data is presented:

- Applied filters (data filters that were used to build the report).
- Data metrics and summaries
- Graphical representation of the data (including line, bar, and pie graphs).
- Tables that assist you in analyzing the data.

**Note** You can use the sample report to plan how you want your report to look.

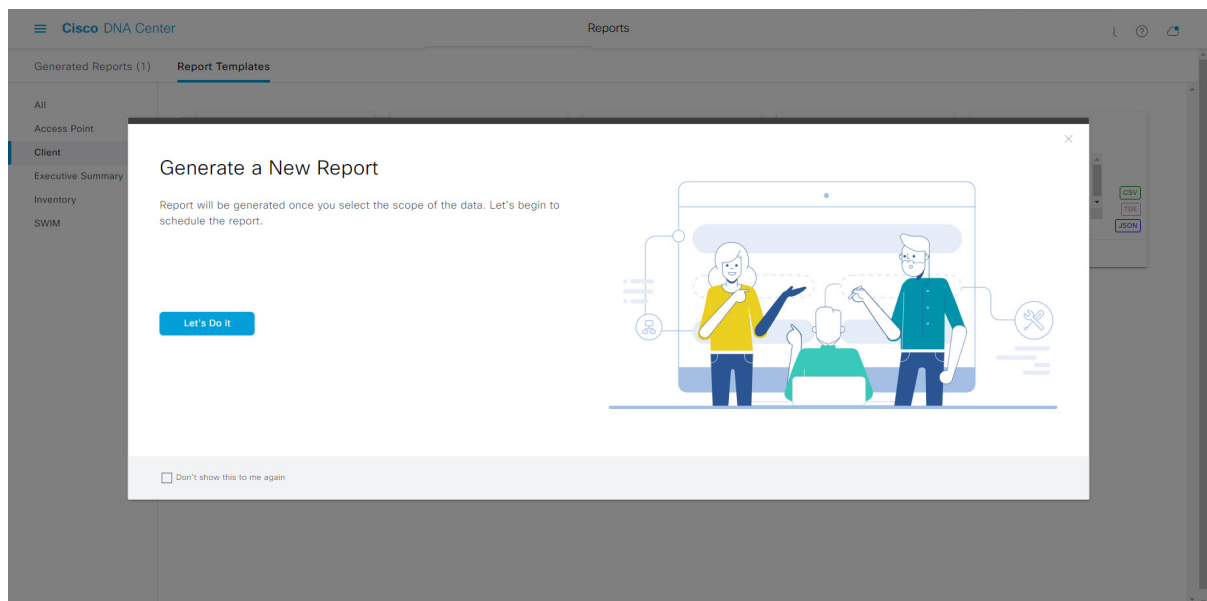
**Step 4** Click **X** to close the preview.

**Step 5** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 6** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 24: Generate a New Report**



The **Select Report Template** window opens.

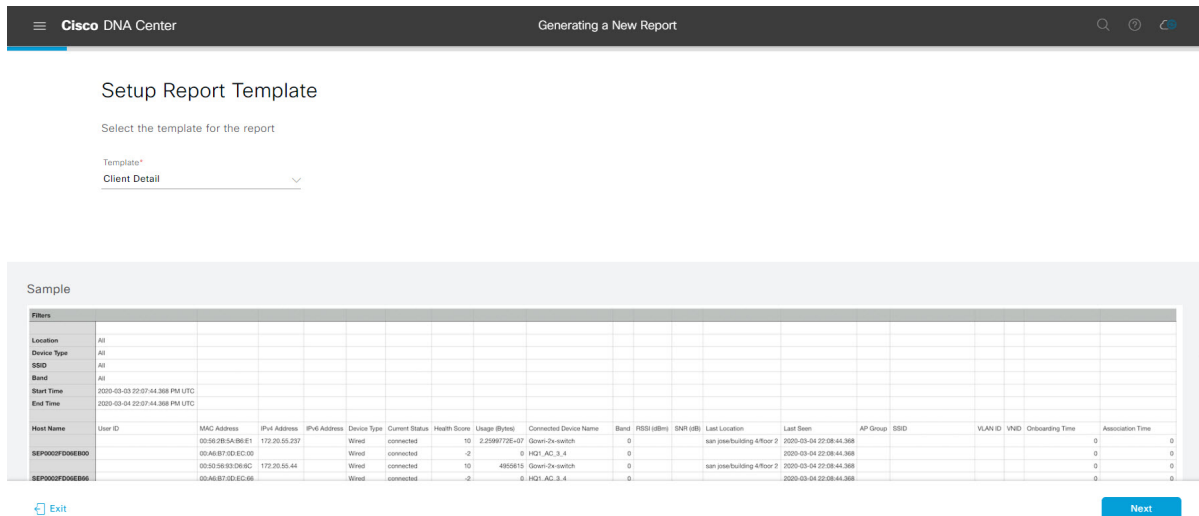
**Step 7** In the **Select Report Template** window, select the template for the report.

Choose the **Template** from the drop-down lists.

**Note** The **Template** consists of the individual report types within the categories for the release.

You can review an autogenerated sample in the same window.

Figure 25: Setup Report Template



Click **Next** to proceed. The **Setup Report Scope** window opens.

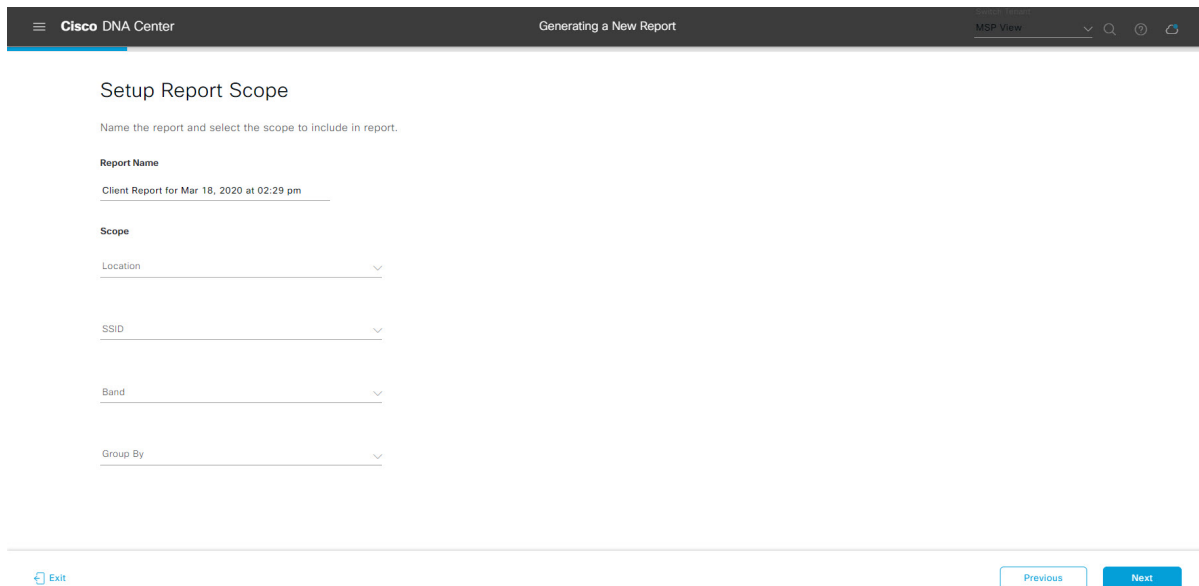
**Step 8**

In the **Setup Report Scope** window, name the report and select the scope.

Enter a report name in the **Report Name** field and click in the **Scope** field to display the available filter. Click the filter options that you want for the report.

**Note** The **Setup Report Scope** options change depending upon the selected **Template**.

Figure 26: Setup Report Scope



Click **Next** to proceed. The **Select File Type** window opens.

**Step 9**

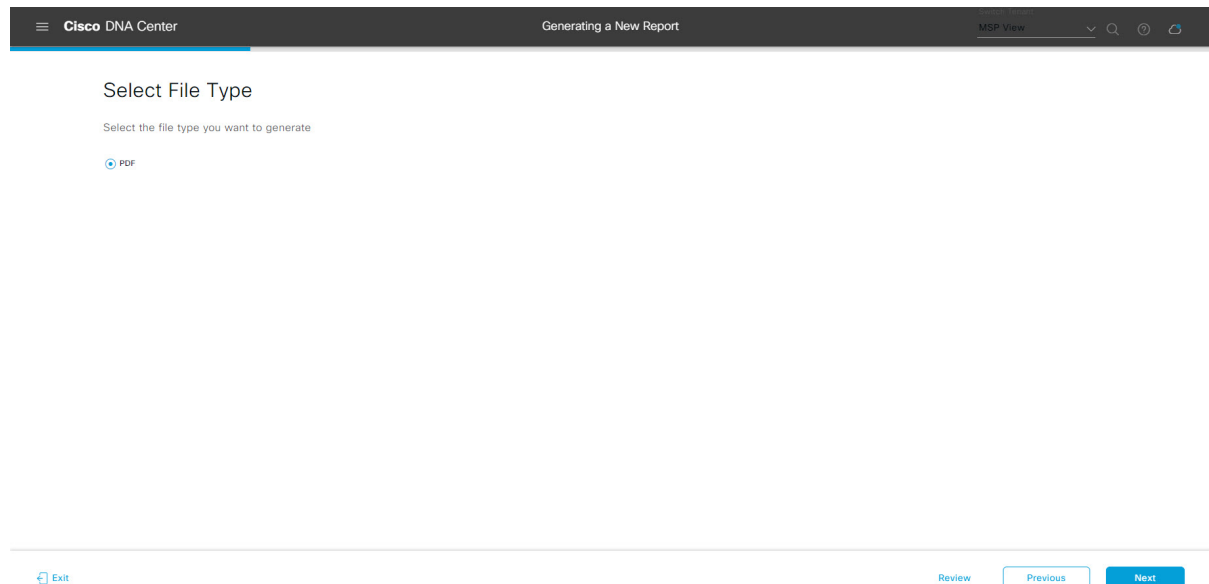
In the **Select File Type** window, select the file type for the report.

Depending upon the report that you are creating, the following **File Type** options may be available:

- **PDF**
- **CSV**
- **Tableau Data Extract**
- **JSON**

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option displays that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

**Figure 27: Select File Type**



Click **Next** to proceed. The **Schedule Report** window opens.

### Step 10

In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- **Last 3 hours**
- **Last 24 hours**
- **Last 7 days**
- **Custom**

**Note** Clicking **Custom** opens up fields where you can choose the date and time interval per the specific report type, as well as the time zone (GMT) for the time range.

The following **Schedule** options are available:

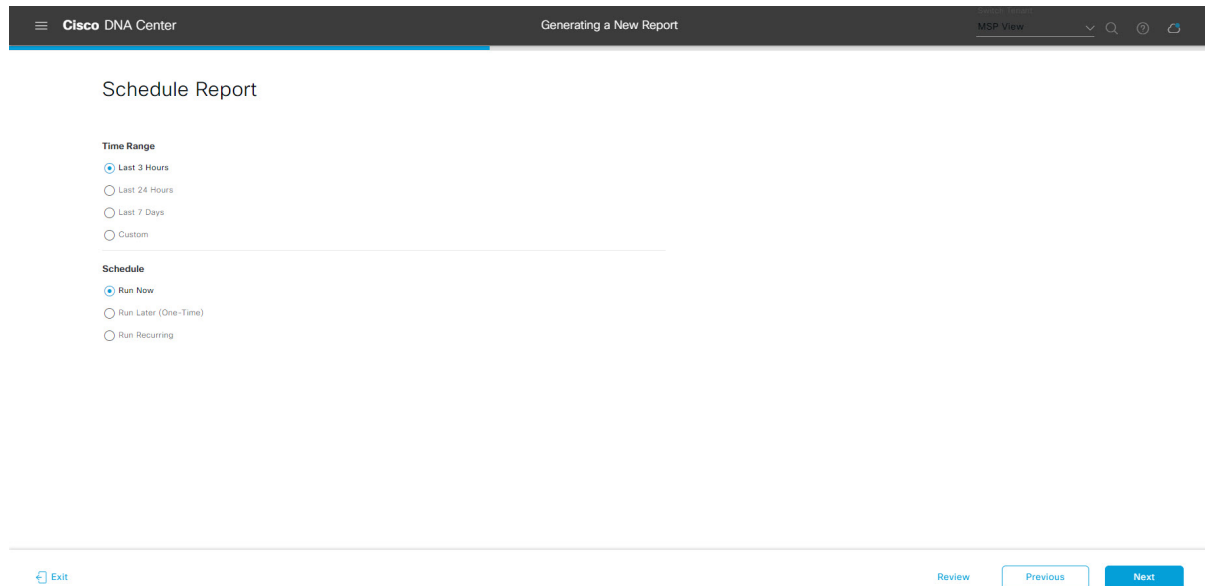
- **Run Now**
- **Run Later**

- **Run Recurring**

You can also select a time zone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 28: Schedule Report**



Click **Next** to proceed. The **Delivery and Notification** window opens.

**Step 11**

In the **Delivery and Notification** window, select the Delivery mechanism for the report.

The options include:

- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not yet configured an SMTP server for the emails, you will be prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure a SMTP server. Click **System > Settings > External Services > Destinations > Email** tab.

- **Link:** The email notification of a successfully compiled report has a link back to itself and the **Generated Reports** page under **Reports**. You can view and download the report from this link and location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

- **Attachment:** Report is attached to the email notification.



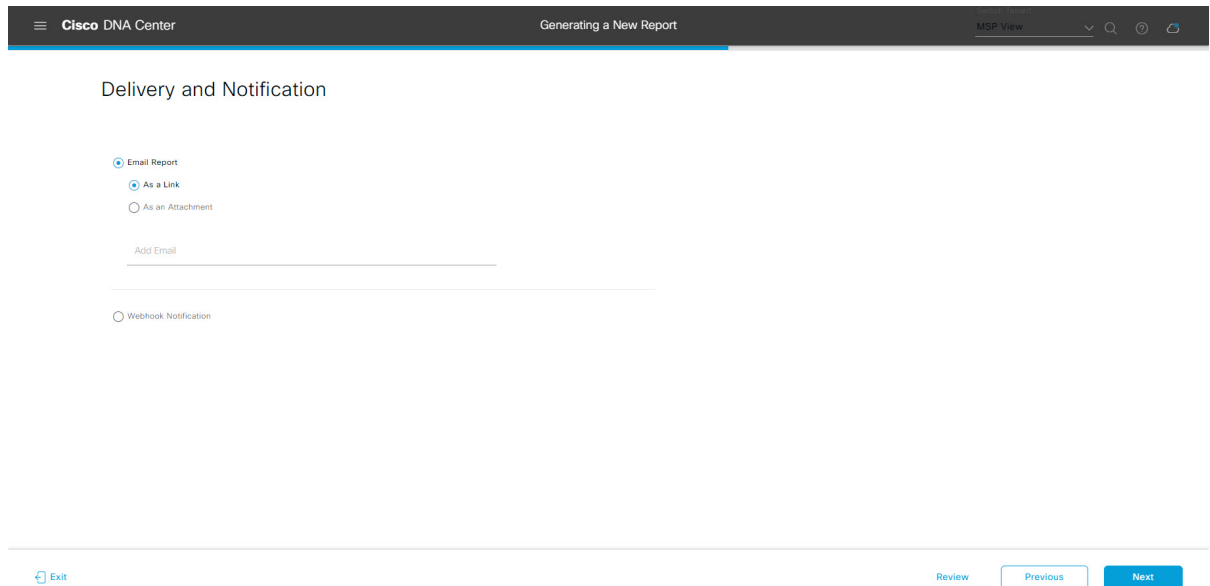
**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

Cisco DNA Center sends the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down list (**Subscription Profile** field).
- Note** If you have not yet created a webhook, you will be prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System > Settings > External Services > Destinations > Webhook** tab.

You will receive status webhook notifications for the report. For example, you will receive "In Queue", "In Progress", and "Success" webhook notifications. You will also be able to view these notifications in the GUI.

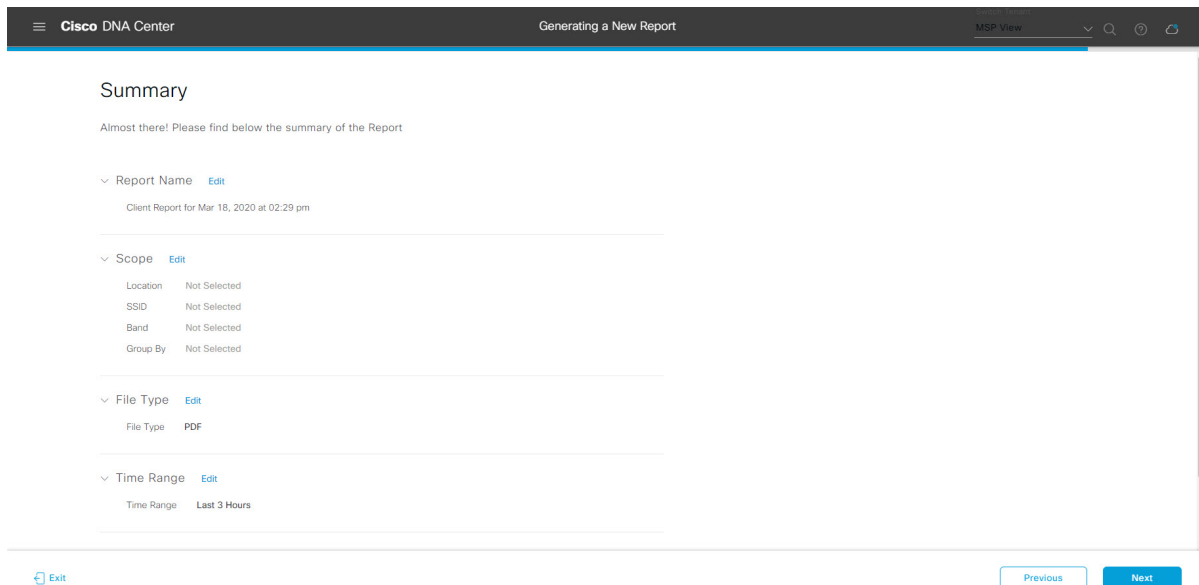
**Figure 29: Delivery and Notification**



Click **Next** to proceed. The **Summary** window opens.

**Step 12** In the **Summary** window, review the configuration and if necessary edit any of the files.

Figure 30: Summary



Click the **Next** button.

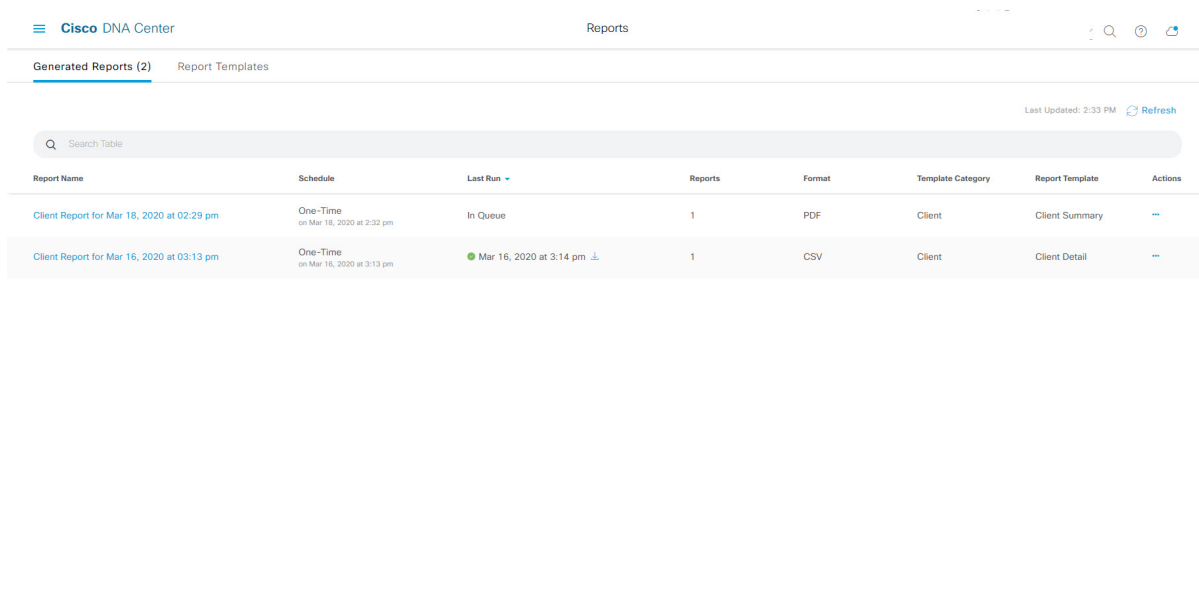
After the report is generated, a success window appears.

**Step 13**

Click the **View the Generated Reports** link.

The **Generated Reports** window opens with instance details of the report that was scheduled.

Figure 31: Generated Reports



### What to do next

Proceed to review your report instance in **Generated Reports** window.

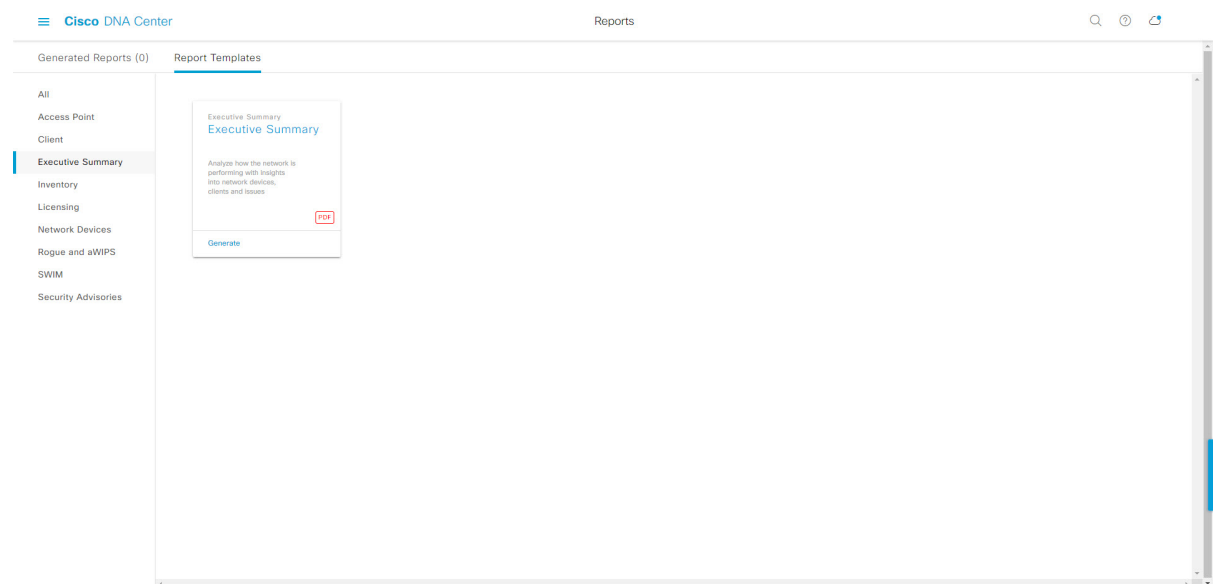


**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## Run an Executive Summary Report

Perform this procedure to configure **Executive Summary** reports for your network. You can configure **Executive Summary** reports using the **Reports** window in the Cisco DNA Center GUI.

**Figure 32: Executive Summary Reports**



### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks as described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), choose **Provision** > **Inventory** to view the results.

**Step 1** In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports** > **Report Templates**.

The **Report Templates** window opens and displays the supported reporting categories. A link represents each category. Click a link to view only the supported reports for that category.

For this release, reporting is supported for the following categories:

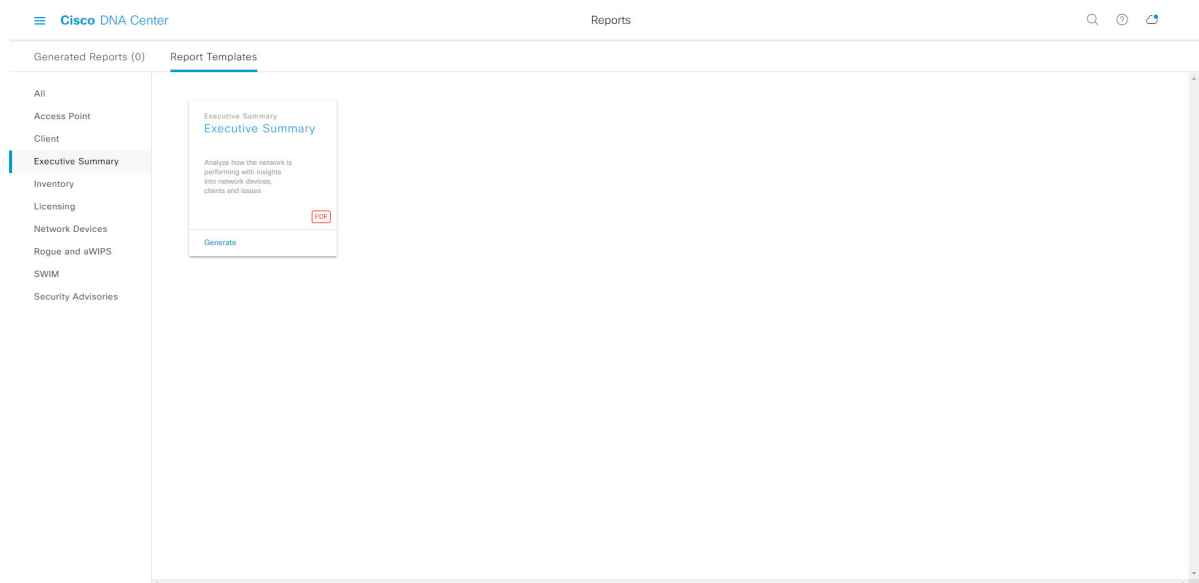
- **Access Point:** Reports that provide data about Access Points and Access Point Radios.
- **Client:** Reports that help with analyzing how the clients are performing in the network.
- **Executive Summary:** Report that helps with analyzing how devices, applications, and clients are performing in the network.
- **Inventory:** Report listing devices discovered by Cisco DNA Center.  
If the individual counts for devices (wireless or wired clients, routers, switches, APs, and so on) exceed 200,000, the count is an estimated count.
- **Licensing:** Reports that lists devices that noncompliant devices and the reasons for noncompliance.
- **Network Devices:** Reports that provide data about the devices within your network.
- **Rogue and aWIPS:** Reports that provide data about threats within your network.
- **SWIM:** Report listing all the devices in network with software and versioning.
- **Security Advisories:** Report that provides Cisco security advisory information on the network devices.

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

## Step 2

After clicking a link, review the **Report Templates** window for that selected category.

**Figure 33: Report Templates Window**



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for an **Executive Summary** report you can create an **Executive Summary** report. Within the tile are also icons that represent the supported file types for the reports (PDF).

**Step 3** In the tile, click the header to view a sample report.

A window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report. The following data is presented:

- Data metrics and summaries
- Graphical representation of the data (including line, bar, and pie graphs).
- Tables that assist you in analyzing the data.

**Note** You can use the sample report to plan how you want your report to look.

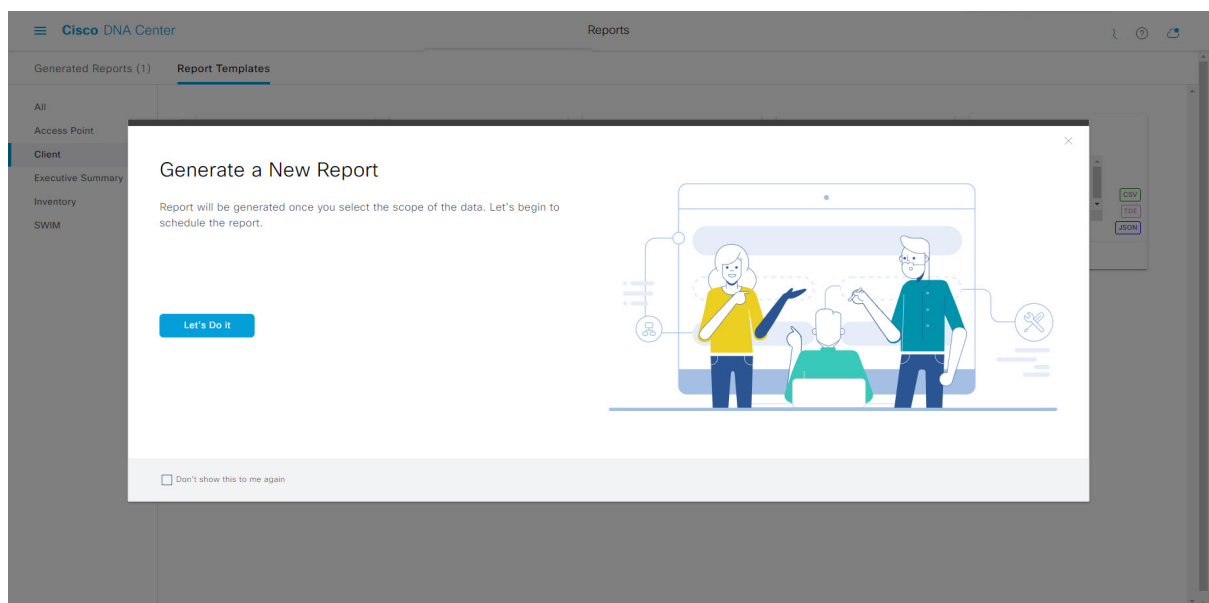
**Step 4** Click **X** to close the preview.

**Step 5** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 6** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 34: Generate a New Report**



The **Select Report Template** window opens.

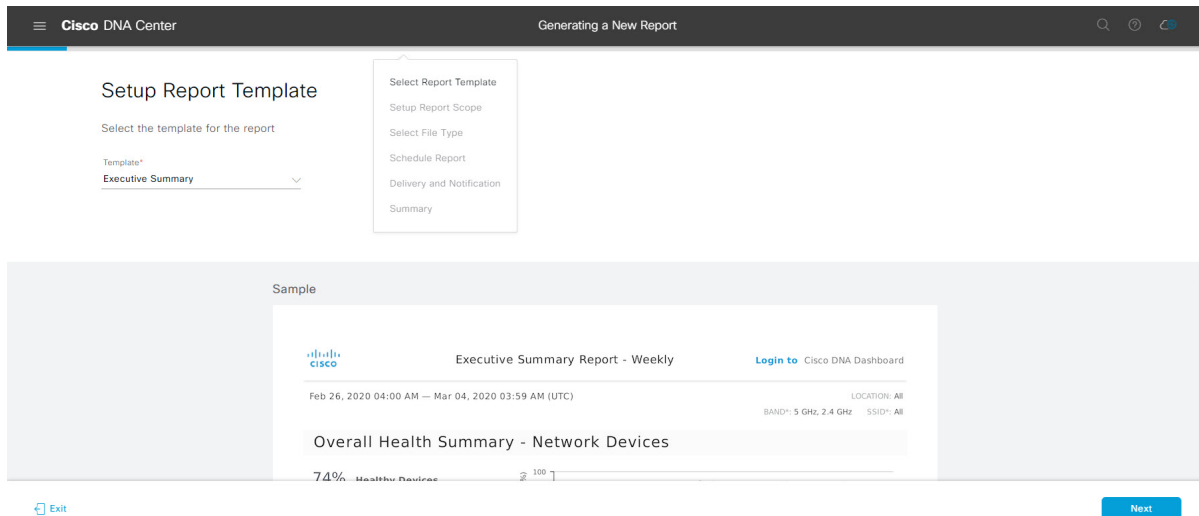
**Step 7** In the **Select Report Template** window, select the template for the report.

Choose the **Template** from the drop-down lists.

**Note** The **Template** consists of the individual report types within the categories for the release.

You can review an autogenerated sample in the same window.

Figure 35: Setup Report Template



Click **Next** to proceed. The **Setup Report Scope** window opens.

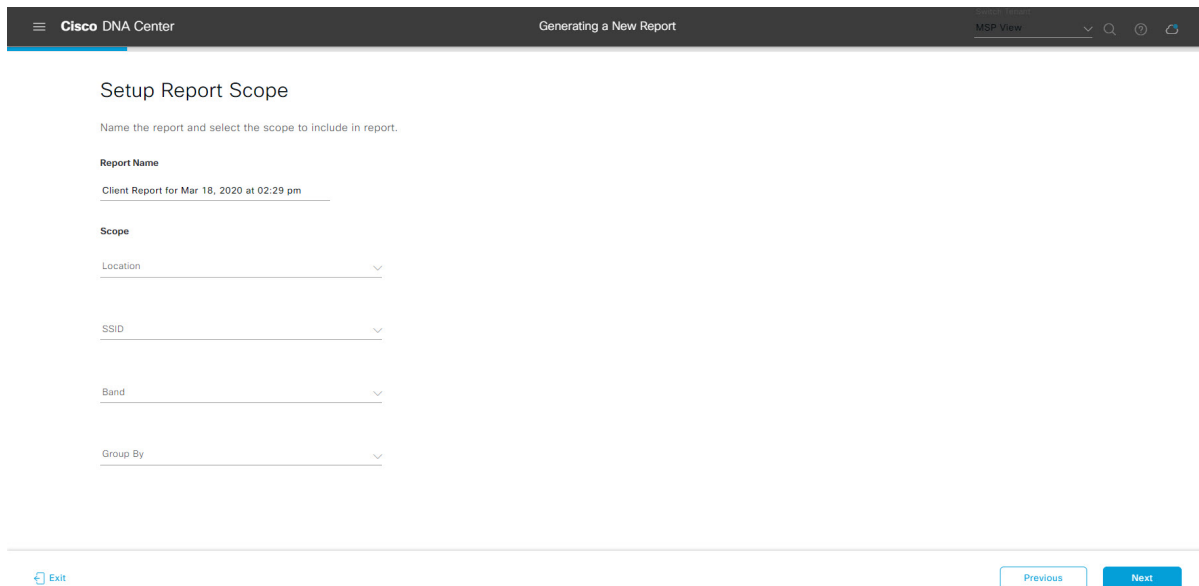
**Step 8**

In the **Setup Report Scope** window, name the report and select the scope.

Enter a report name in the **Report Name** field and click in the **Scope** field to display the available filter. Click the filter options that you want for the report.

**Note** The **Setup Report Scope** options change depending upon the selected **Template**.

Figure 36: Setup Report Scope



Click **Next** to proceed. The **Select File Type** window opens.

**Step 9**

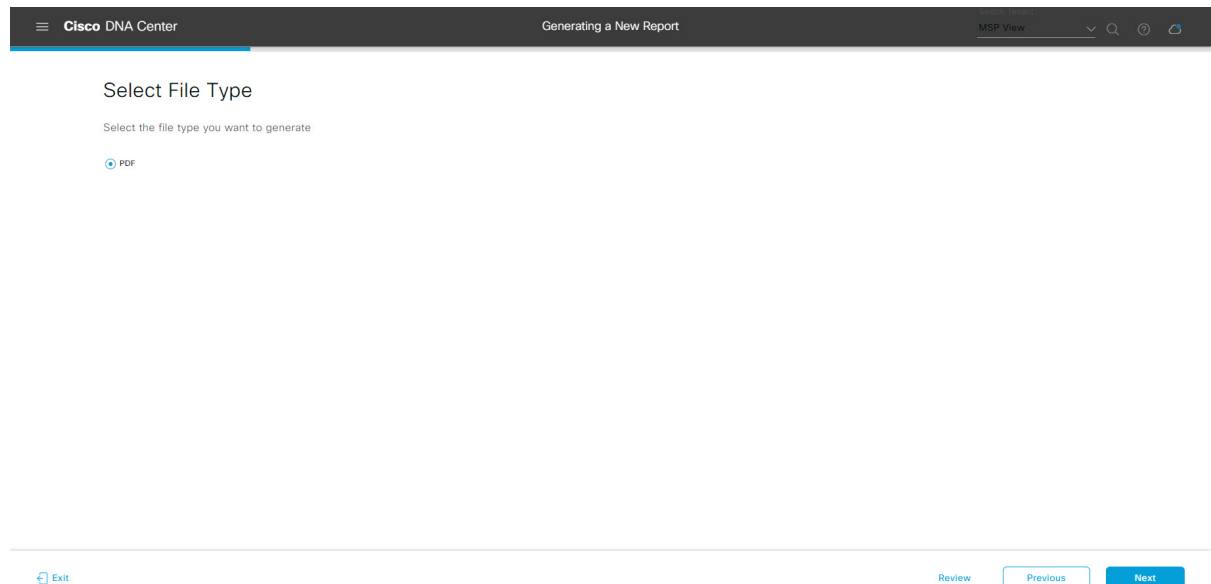
In the **Select File Type** window, select the file type for the report.

Depending upon the report that you are creating, the following **File Type** options may be available:

- **PDF**
- **CSV**
- **Tableau Data Extract**
- **JSON**

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option displays that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

**Figure 37: Select File Type**



Click **Next** to proceed. The **Schedule Report** window opens.

#### **Step 10**

In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- **Last 3 hours**
- **Last 24 hours**
- **Last 7 days**
- **Custom**

**Note** Clicking **Custom** opens up fields where you can choose the date and time interval per the specific report type, as well as the time zone (GMT) for the time range.

The following **Schedule** options are available:

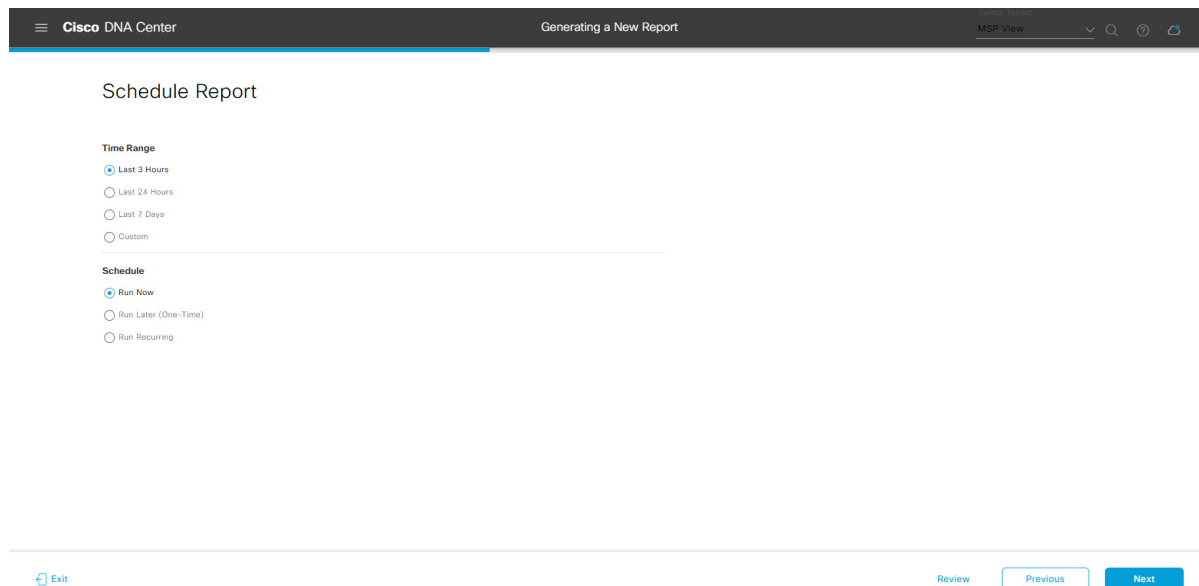
- **Run Now**
- **Run Later**

- **Run Recurring**

You can also select a time zone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 38: Schedule Report**



Click **Next** to proceed. The **Delivery and Notification** window opens.

**Step 11**

In the **Delivery and Notification** window, select the Delivery mechanism for the report.

The options include:

- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not yet configured an SMTP server for the emails, you will be prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure a SMTP server. Click **System > Settings > External Services > Destinations > Email**.

- **Link:** The email notification of a successfully compiled report has a link back to itself and the **Generated Reports** page under **Reports**. You can view and download the report from this link and location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

- **Attachment:** Report is attached to the email notification.



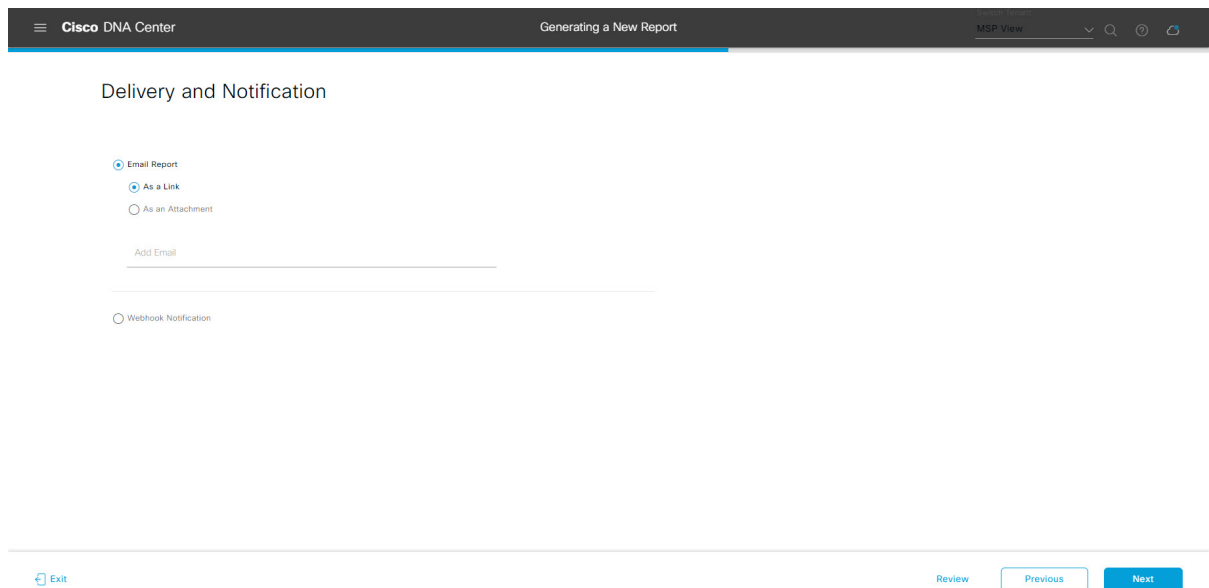
**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

Cisco DNA Center sends the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down list (**Subscription Profile** field).
- Note** If you have not yet created a webhook, you will be prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System > Settings > External Services > Destinations > Webhook** tab.

You will receive status webhook notifications for the report. For example, you will receive "In Queue", "In Progress", and "Success" webhook notifications. You will also be able to view these notifications in the GUI.

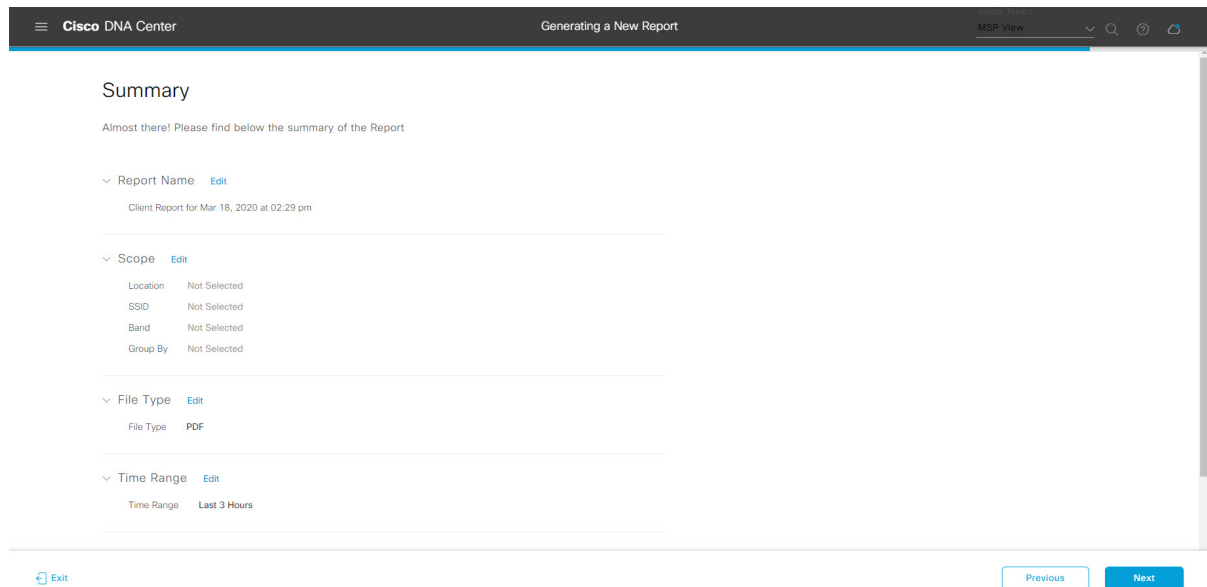
**Figure 39: Delivery and Notification**



Click **Next** to proceed. The **Summary** window opens.

**Step 12** In the **Summary** window, review the configuration and if necessary edit any of the files.

Figure 40: Summary



Click the **Next** button.

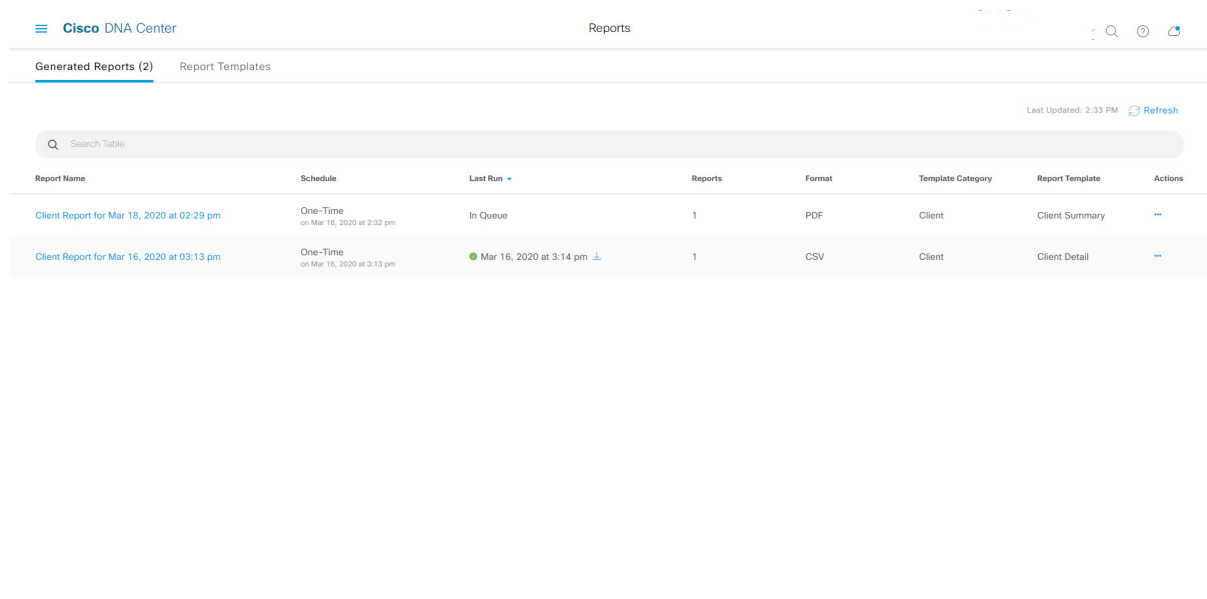
After the report is generated, a success window appears.

**Step 13**

Click the **View the Generated Reports** link.

The **Generated Reports** window opens with instance details of the report that was scheduled.

Figure 41: Generated Reports



### What to do next

Proceed to review your report instance in **Generated Reports** window.

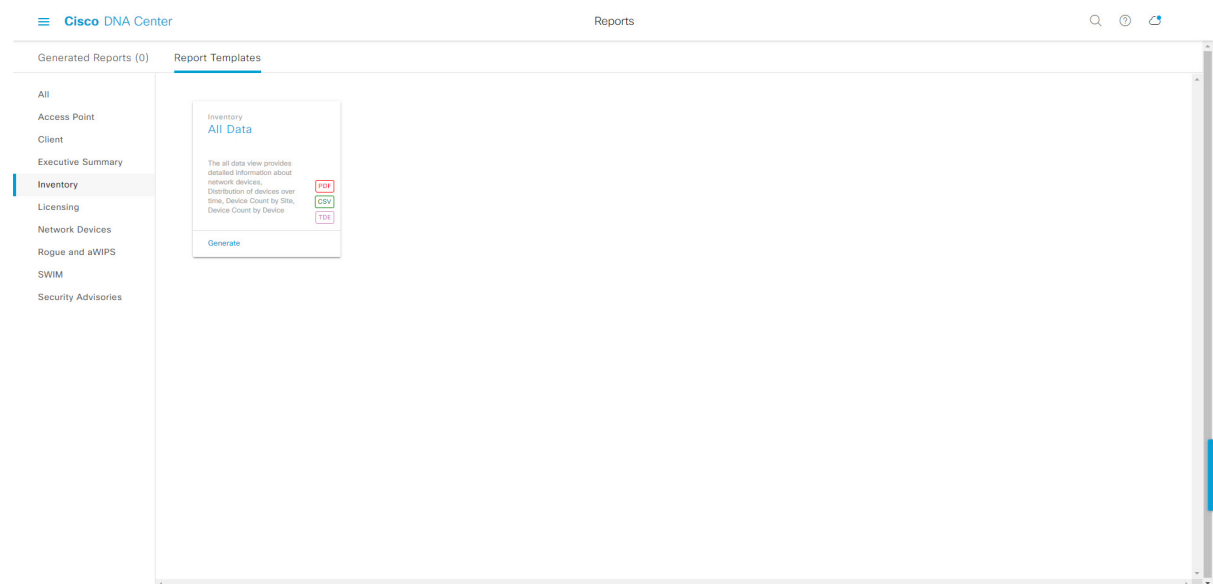


**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## Run an Inventory Report

Perform this procedure to configure **Inventory** reports for your network. You can configure **Inventory** reports using the **Reports** window in the Cisco DNA Center GUI.

**Figure 42: Inventory Reports**



### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks as described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), choose **Provision** > **Inventory** to view the results.

### Step 1

In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports** > **Report Templates**.

The **Report Templates** window opens and displays the supported reporting categories. A link represents each category. Click a link to view only the supported reports for that category.

For this release, reporting is supported for the following categories:

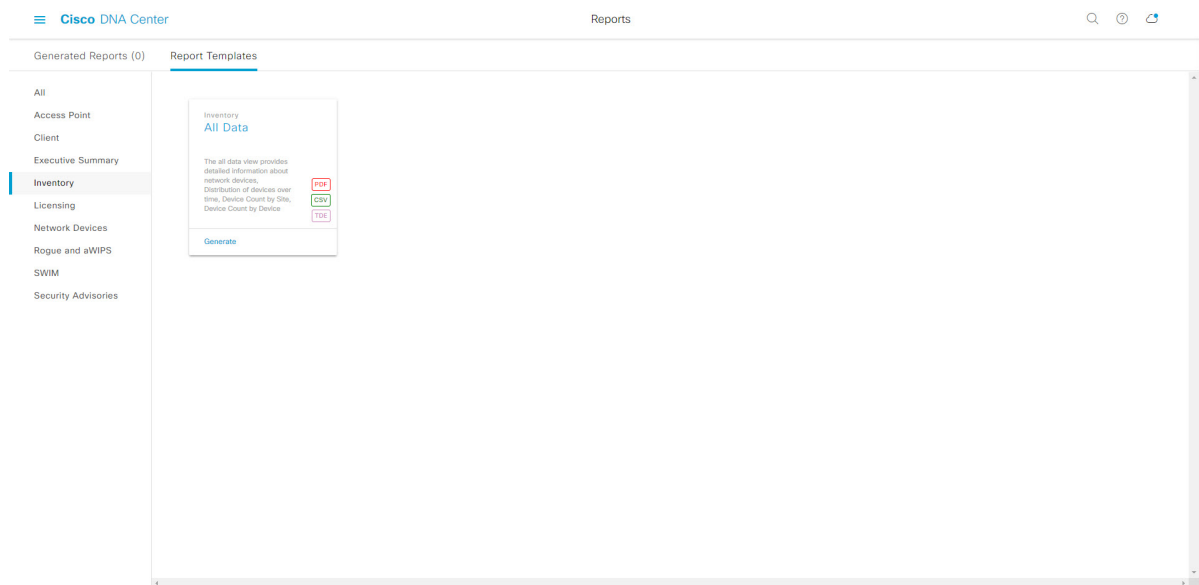
- **Access Point:** Reports that provide data about Access Points and Access Point Radios.
- **Client:** Reports that help with analyzing how the clients are performing in the network.
- **Executive Summary:** Report that helps with analyzing how devices, applications, and clients are performing in the network.
- **Inventory:** Report listing devices discovered by Cisco DNA Center.
- **Licensing:** Reports that lists devices that noncompliant devices and the reasons for noncompliance.
- **Network Devices:** Reports that provide data about the devices within your network.
- **Rogue and aWIPS:** Reports that provide data about threats within your network.
- **SWIM:** Report listing all the devices in network with software and versioning.
- **Security Advisories:** Report that provides Cisco security advisory information on the network devices.

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

## Step 2

After clicking a link, review the **Report Templates** window for that selected category.

**Figure 43: Report Templates Window**



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for an **Inventory** report you can create an **All Data** report. Within the tile are also icons that represent the supported file types for the reports (PDF, CSV, or TDE).

## Step 3

In the tile, click the header to view a sample report.

A window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report. The following data is presented:

- Applied filters (data filters that were used to build the report).
- Data metrics and summaries
- Graphical representation of the data (including line, bar, and pie graphs).
- Tables that assist you in analyzing the data.

**Note** You can use the sample report to plan how you want your report to look.

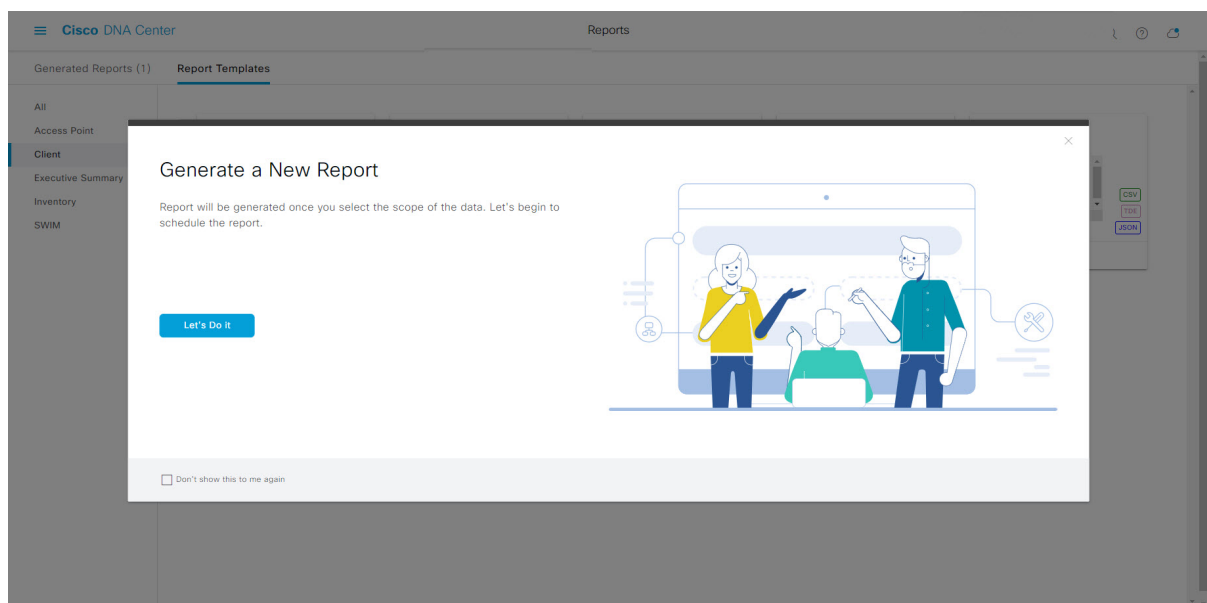
**Step 4** Click **X** to close the preview.

**Step 5** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 6** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 44: Generate a New Report**



The **Select Report Template** window opens.

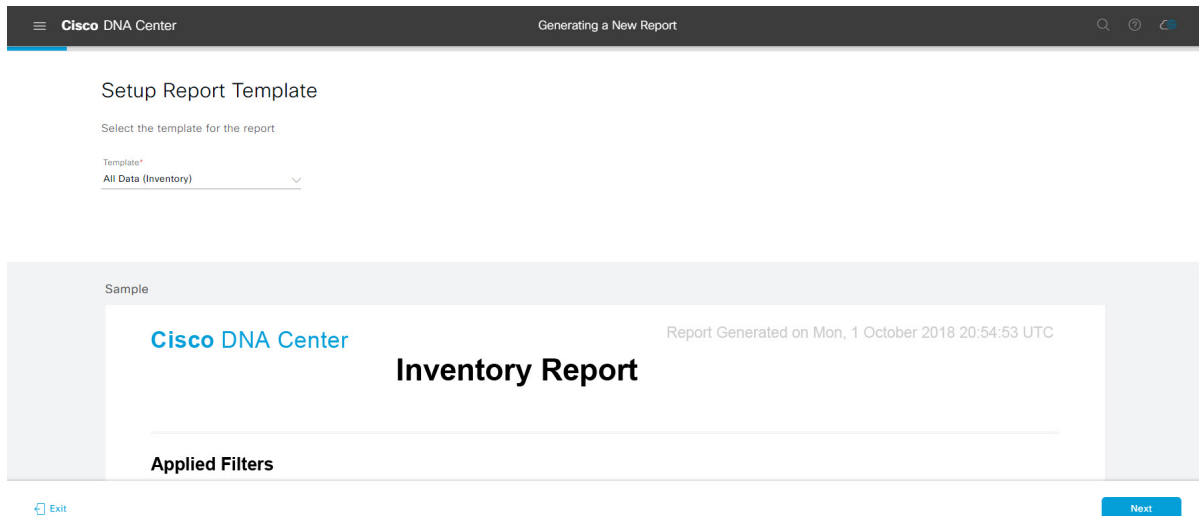
**Step 7** In the **Select Report Template** window, select the template for the report.

Choose the **Template** from the drop-down lists.

**Note** The **Template** consists of the individual report types within the categories for the release.

You can review an autogenerated sample in the same window.

Figure 45: Setup Report Template



Click **Next** to proceed. The **Setup Report Scope** window opens.

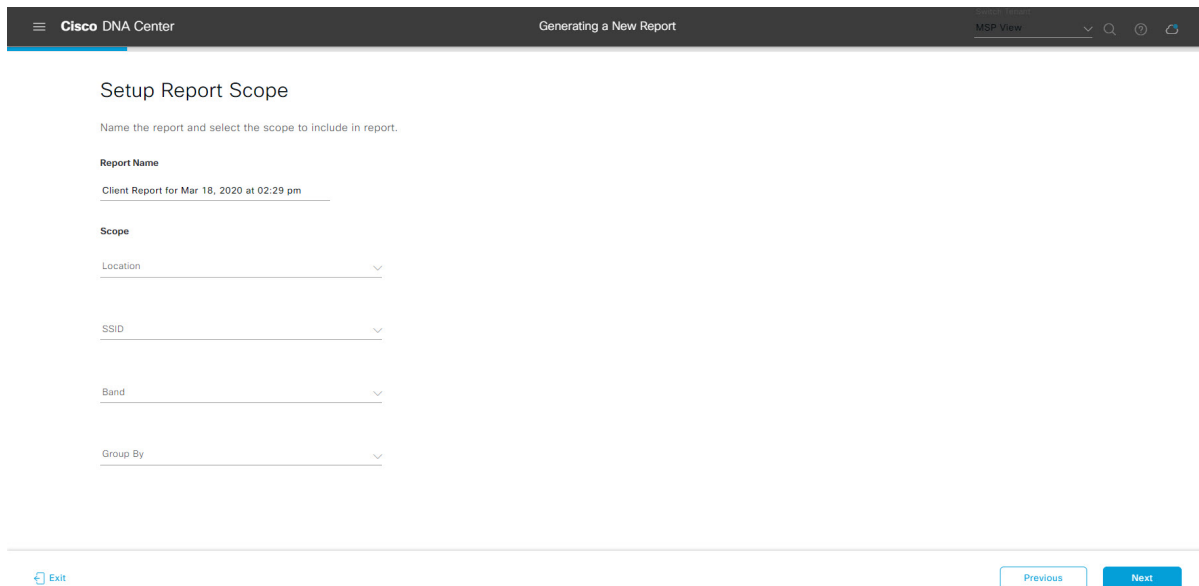
**Step 8**

In the **Setup Report Scope** window, name the report and select the scope.

Enter a report name in the **Report Name** field and click in the **Scope** field to display the available filter. Click the filter options that you want for the report.

**Note** The **Setup Report Scope** options change depending upon the selected **Template**.

Figure 46: Setup Report Scope



Click **Next** to proceed. The **Select File Type** window opens.

**Step 9**

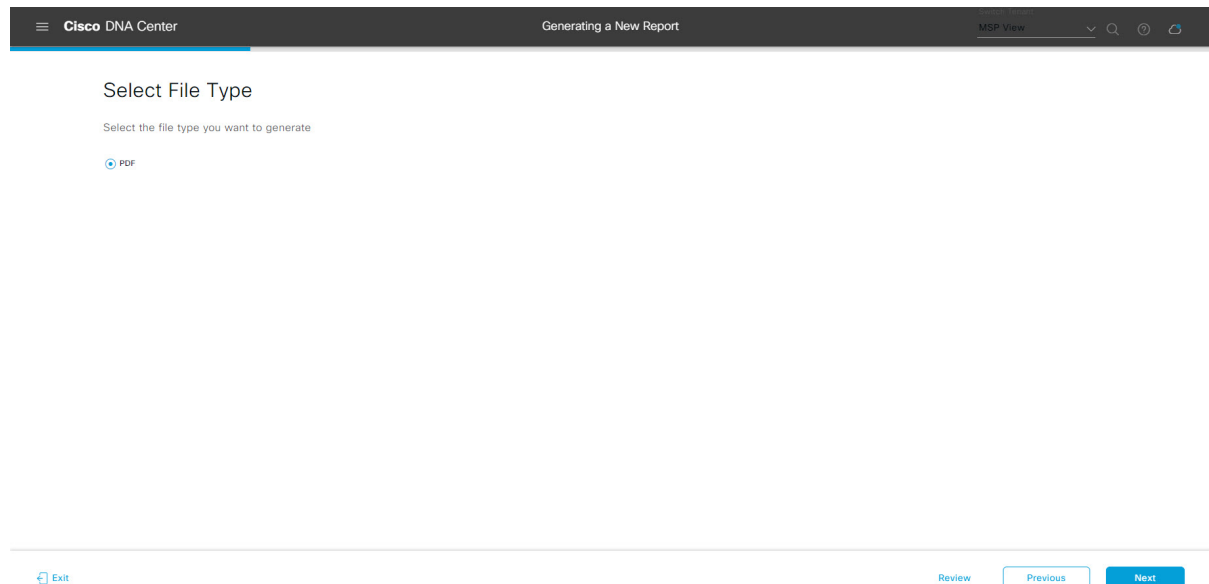
In the **Select File Type** window, select the file type for the report.

Depending upon the report that you are creating, the following **File Type** options may be available:

- **PDF**
- **CSV**
- **Tableau Data Extract**
- **JSON**

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option displays that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

**Figure 47: Select File Type**



Click **Next** to proceed. The **Schedule Report** window opens.

### Step 10

In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- **Last 3 hours**
- **Last 24 hours**
- **Last 7 days**
- **Custom**

**Note** Clicking **Custom** opens up fields where you can choose the date and time interval per the specific report type, as well as the time zone (GMT) for the time range.

The following **Schedule** options are available:

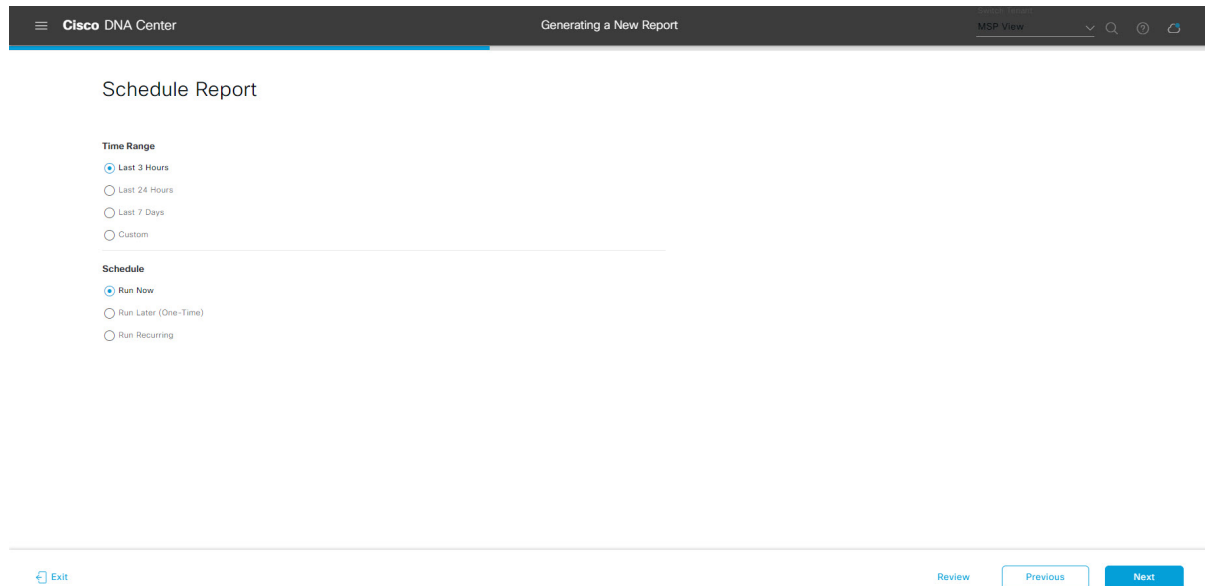
- **Run Now**
- **Run Later**

- **Run Recurring**

You can also select a time zone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 48: Schedule Report**



Click **Next** to proceed. The **Delivery and Notification** window opens.

**Step 11**

In the **Delivery and Notification** window, select the Delivery mechanism for the report.

The options include:

- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not yet configured an SMTP server for the emails, you will be prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure a SMTP server. Click **System > Settings > External Services > Destinations > Email**.

- **Link:** The email notification of a successfully compiled report has a link back to itself and the **Generated Reports** page under **Reports**. You can view and download the report from this link and location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

- **Attachment:** Report is attached to the email notification.



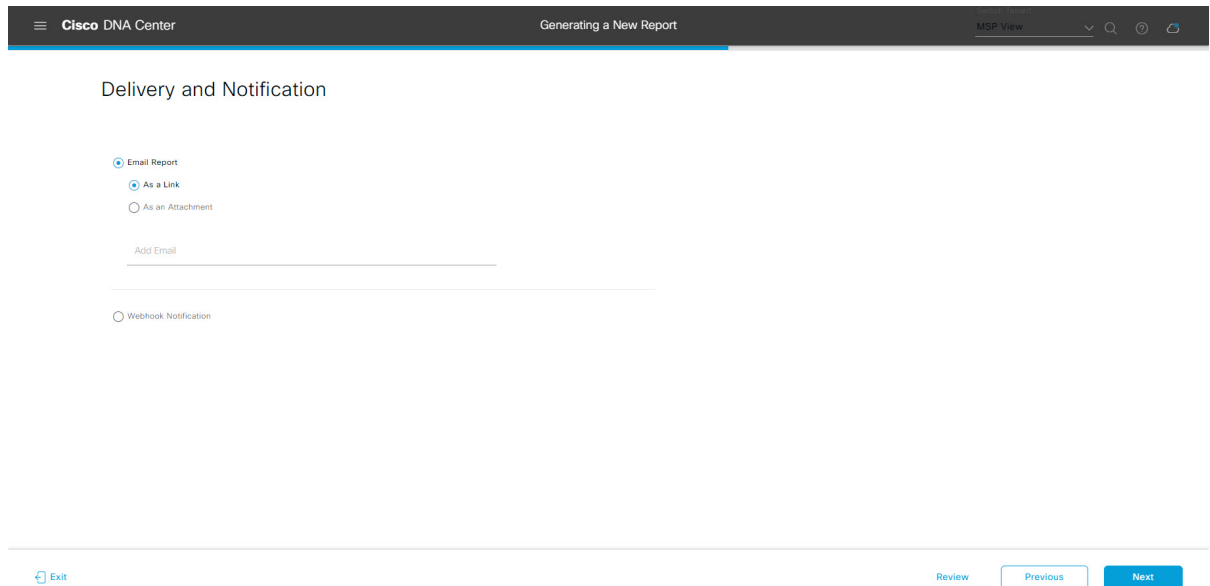
**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

Cisco DNA Center sends the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down list (**Subscription Profile** field).
- Note** If you have not yet created a webhook, you will be prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System > Settings > External Services > Destinations > Webhook** tab.

You will receive status webhook notifications for the report. For example, you will receive "In Queue", "In Progress", and "Success" webhook notifications. You will also be able to view these notifications in the GUI.

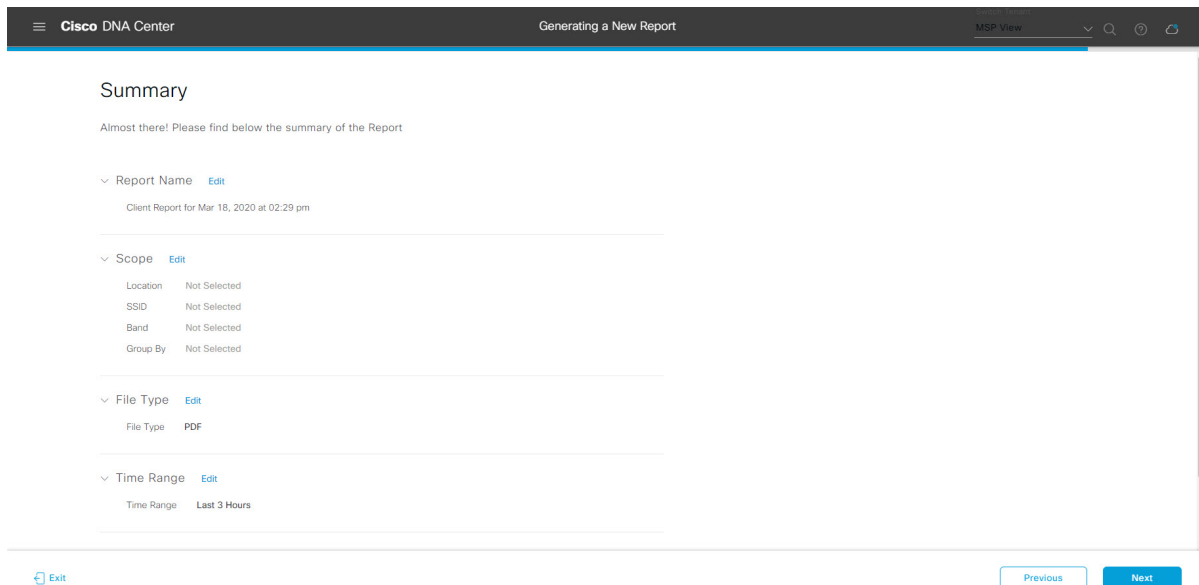
**Figure 49: Delivery and Notification**



Click **Next** to proceed. The **Summary** window opens.

**Step 12** In the **Summary** window, review the configuration and if necessary edit any of the files.

Figure 50: Summary



Click the **Next** button.

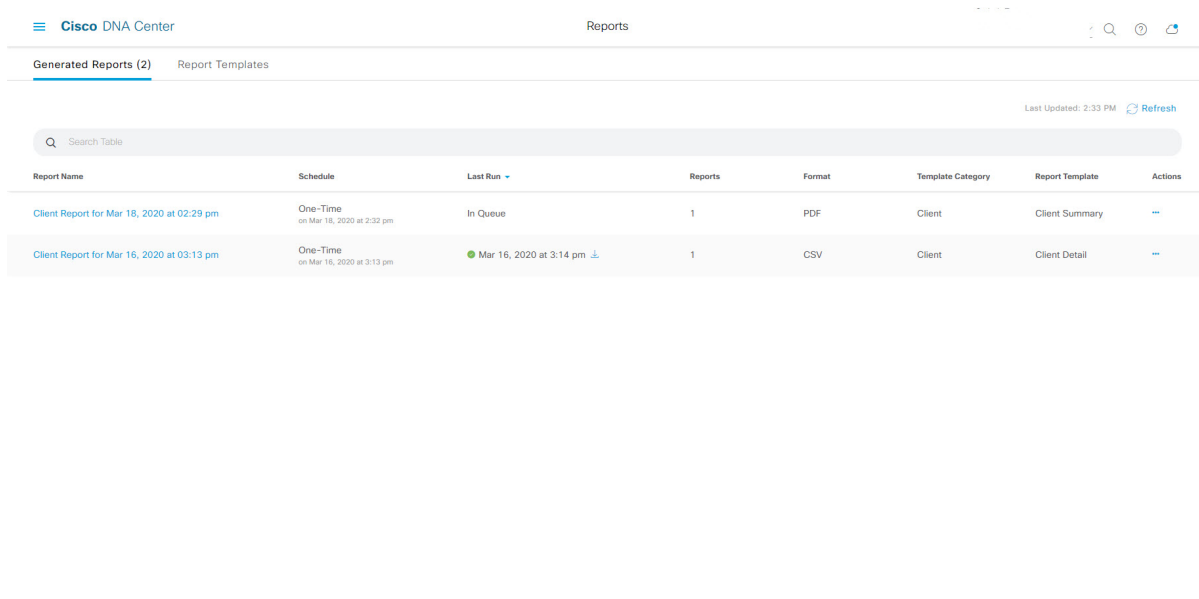
After the report is generated, a success window appears.

**Step 13**

Click the **View the Generated Reports** link.

The **Generated Reports** window opens with instance details of the report that was scheduled.

Figure 51: Generated Reports



### What to do next

Proceed to review your report instance in **Generated Reports** window.

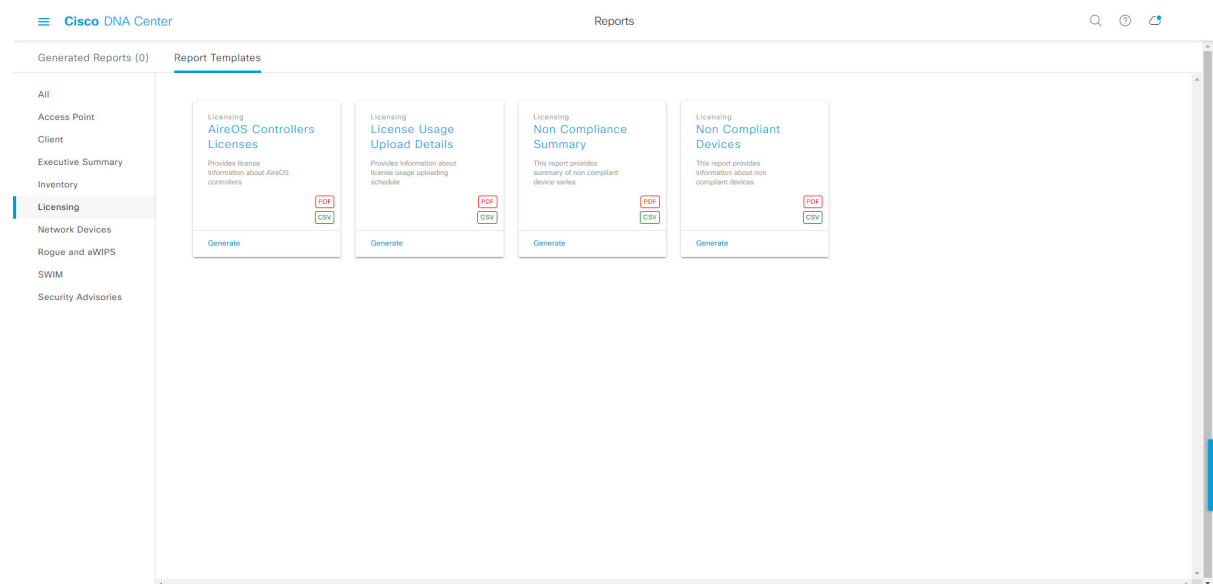


**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## Run a Licensing Report

Perform this procedure to configure **Licensing** reports about your network. You can configure **Licensing** reports using the **Reports** window in the Cisco DNA Center GUI.

**Figure 52: Licensing Reports**



### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), choose **Provision** > **Inventory** to view the results.

**Step 1** In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports** > **Report Templates**.

The **Report Templates** window opens and displays the supported reporting categories. A link represents each category. Click a link to view only the supported reports for that category.

For this release, reporting is supported for the following categories:

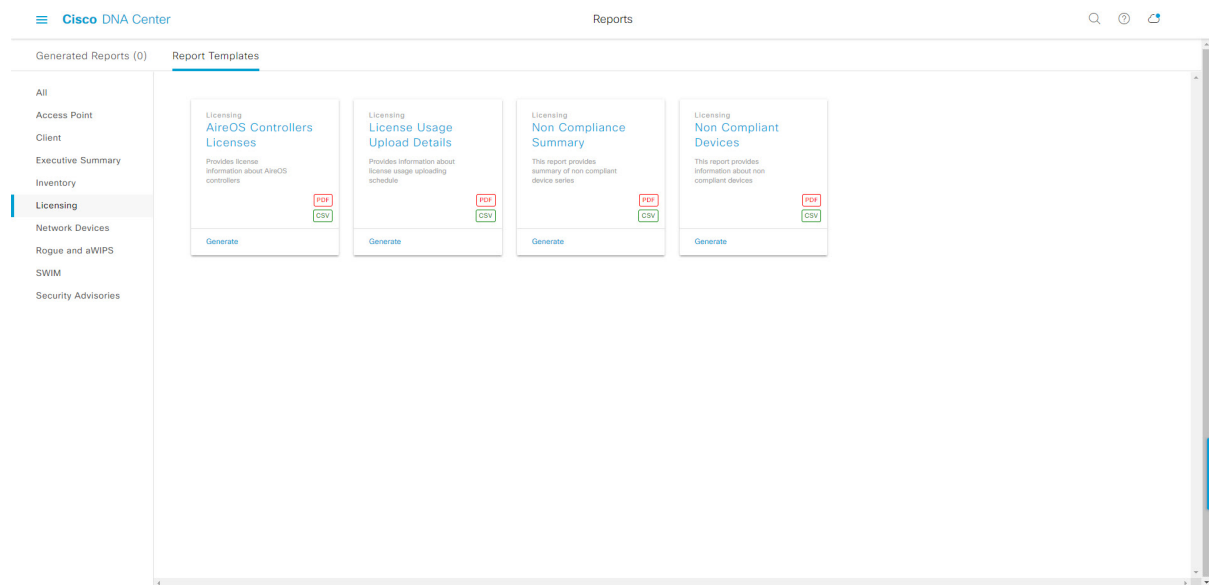
- **Access Point:** Reports that provide data about Access Points and Access Point Radios.
- **Client:** Reports that help with analyzing how the clients are performing in the network.
- **Executive Summary:** Report that helps with analyzing how devices, applications, and clients are performing in the network.
- **Inventory:** Report listing devices discovered by Cisco DNA Center.
- **Licensing:** Reports that lists devices that noncompliant devices and the reasons for noncompliance.
- **Network Devices:** Reports that provide data about the devices within your network.
- **Rogue and aWIPS:** Reports that provide data about threats within your network.
- **SWIM:** Report listing all the devices in the network, along with their software and versioning.
- **Security Advisories:** Report that provides Cisco security advisory information on the network devices.

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

## Step 2

After clicking a link, review the **Report Templates** window for that selected category.

**Figure 53: Report Templates Window**



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for a **Licensing** report you can create an **AireOS Controllers Licenses** report. Within the tile are also icons that represent the supported file types for the reports (PDF or CSV).

## Step 3

In the tile, click the header to view a sample report.

A window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report. The following data is presented:

- Applied filters (data filters that were used to build the report).
- Data metrics and summaries
- Tables that assist you in analyzing the data.

**Note** You can use the sample report to plan how you want your report to look.

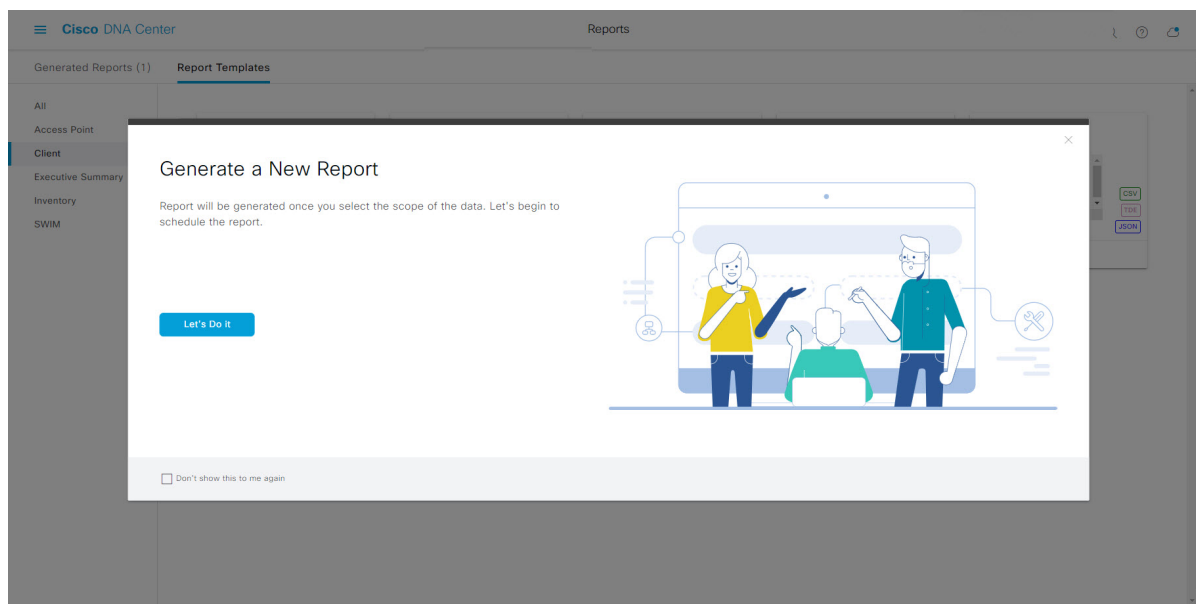
**Step 4** Click **X** to close the preview.

**Step 5** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 6** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 54: Generate a New Report**



The **Select Report Template** window opens.

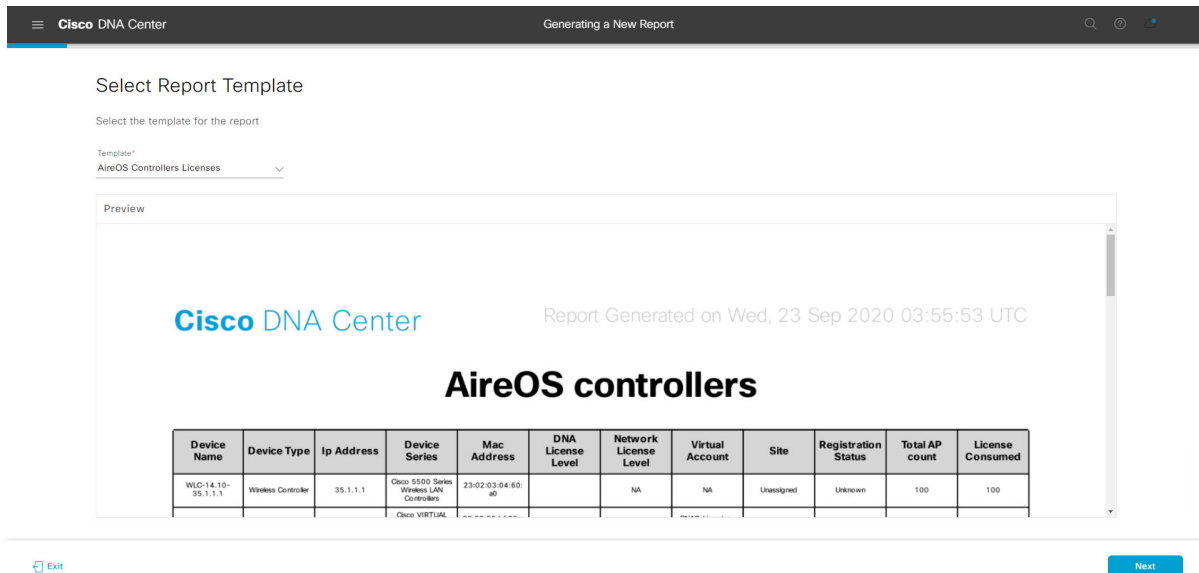
**Step 7** In the **Select Report Template** window, select the template for the report.

Choose the **Template** from the drop-down lists.

**Note** The **Template** consists of the individual report types within the categories for the release.

You can review an autogenerated sample in the same window.

Figure 55: Select Report Template



Click **Next** to proceed. The **Setup Report Scope** window opens.

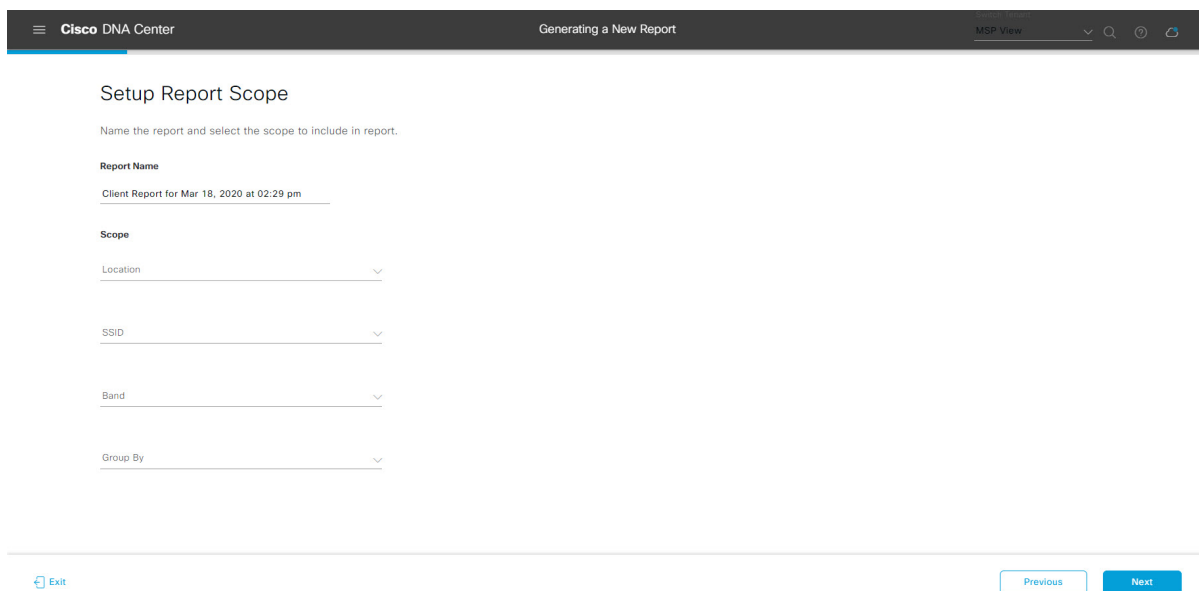
**Step 8**

In the **Setup Report Scope** window, name the report and select the scope.

In the **Report Name** field, enter a report name and click inside the **Scope** field to display the available filter. Click the filter options that you want for the report.

**Note** The **Setup Report Scope** options change depending upon the selected **Template**.

Figure 56: Setup Report Scope



Click **Next** to proceed. The **Select File Type** window opens.

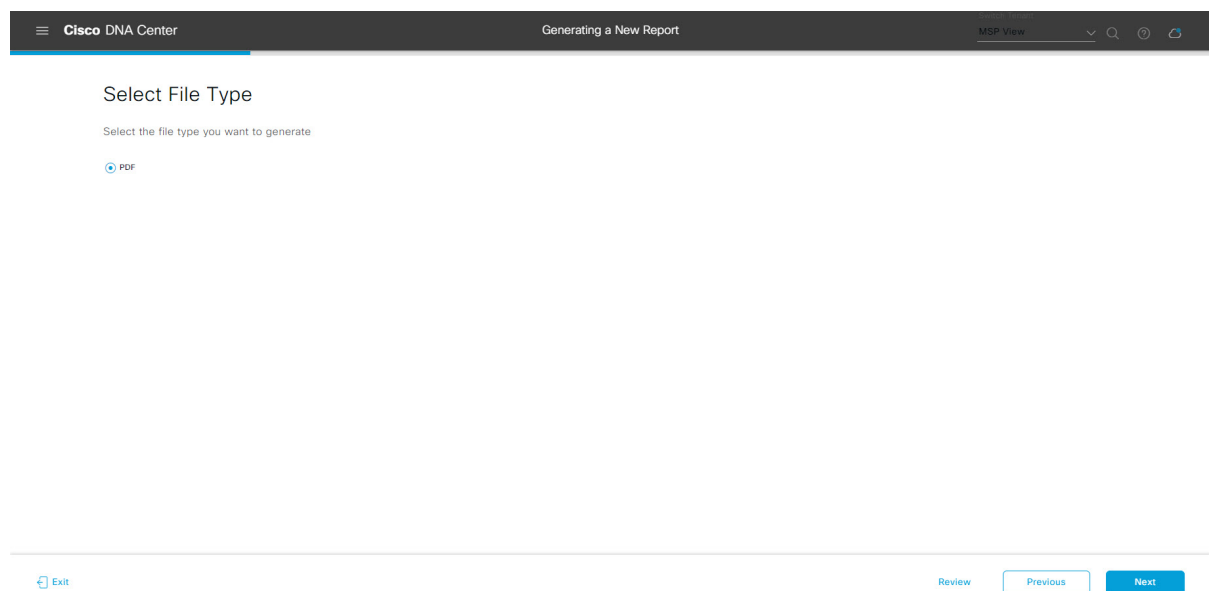
**Step 9** In the **Select File Type** window, select the file type for the report.

Depending on the report that you are creating, the following **File Type** options may be available:

- PDF
- CSV
- Tableau Data Extract
- JSON

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option displays that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

**Figure 57: Select File Type**



Click **Next** to proceed. The **Schedule Report** window opens.

**Step 10** In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- Last 3 hours
- Last 24 hours
- Last 7 days
- Custom

**Note** Clicking **Custom** displays fields where you can choose the date and time interval for a specific report type, and the time zone (GMT) for the time range.

The following **Schedule** options are available:

- Run Now

- **Run Later**
- **Run Recurring**

You can also select a time zone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 58: Schedule Report**

The screenshot shows the 'Schedule Report' configuration interface in Cisco DNA Center. The page title is 'Schedule Report'. Under the 'Time Range' section, there are four radio button options: 'Last 3 Hours' (selected), 'Last 24 Hours', 'Last 7 Days', and 'Custom'. Under the 'Schedule' section, there are three radio button options: 'Run Now' (selected), 'Run Later (One-Time)', and 'Run Recurring'. At the bottom of the page, there are navigation buttons: 'Exit', 'Review', 'Previous', and 'Next'.

Click **Next** to proceed. The **Delivery and Notification** window opens.

### Step 11

In the **Delivery and Notification** window, select the delivery mechanism for the report:

- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not configured an SMTP server for the emails, you are prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure an SMTP server. Click **System > Settings > External Services > Destinations > Email** tab.

- **Link:** The email notification of a successfully compiled report has a link to the report and to the **Generated Reports** page under **Reports**. You can view and download the report from this location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

- **Attachment:** Report is attached to the email notification.



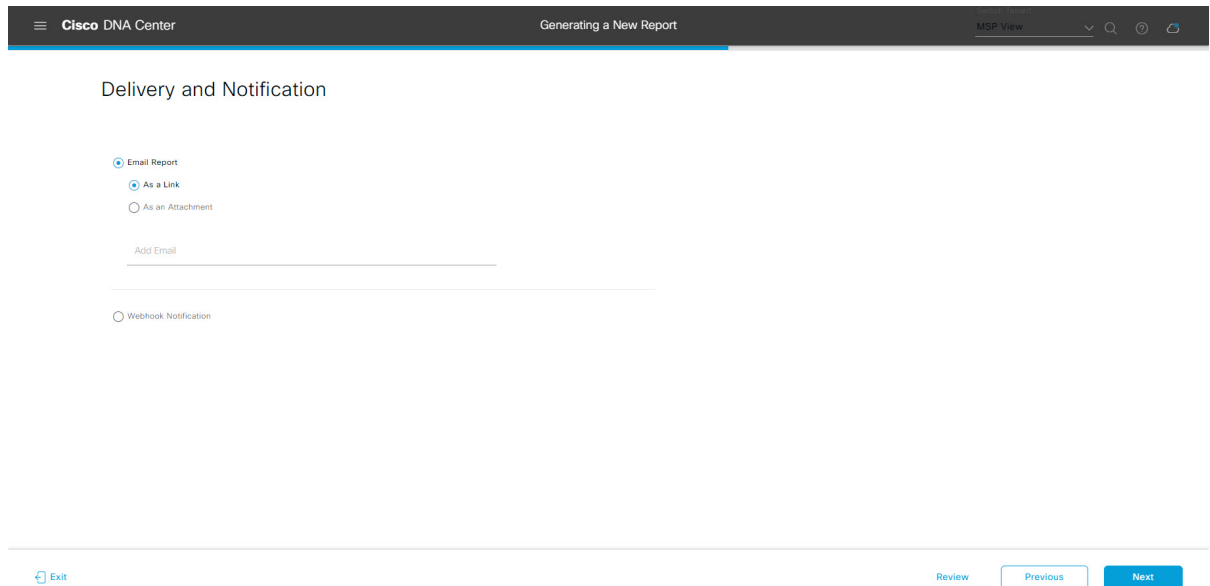
**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

Cisco DNA Center sends the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down list (**Subscription Profile** field).
- Note** If you have not yet created a webhook, you are prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System > Settings > External Services > Destinations > Webhook**.

You receive status webhook notifications for the report, for example, **In Queue**, **In Progress**, and **Success**. You are also able to view these notifications in the GUI.

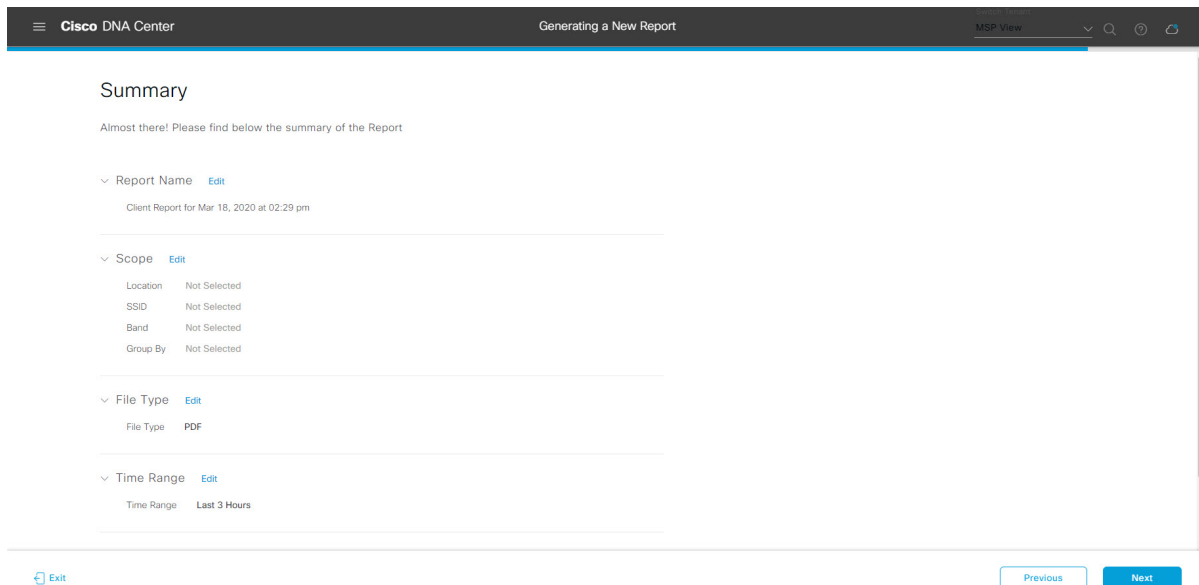
**Figure 59: Delivery and Notification**



Click **Next** to proceed. The **Summary** window opens.

**Step 12** In the **Summary** window, review the configuration and, if necessary, edit the files.

Figure 60: Summary



Click **Next**.

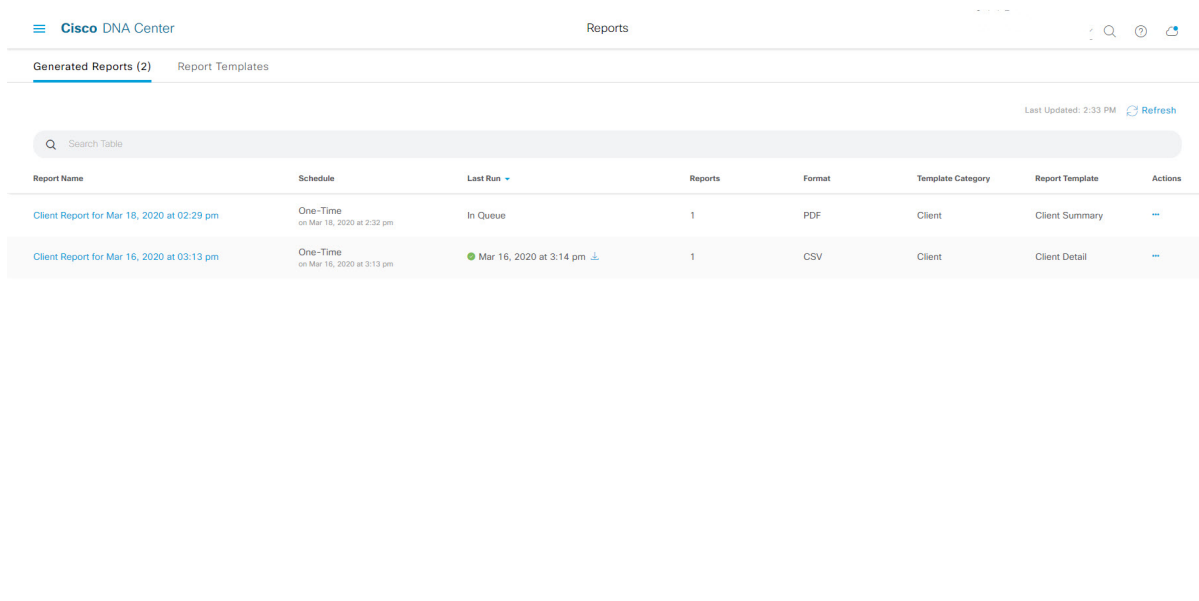
After the report is generated, a success window appears.

**Step 13**

Click the **View the Generated Reports** link.

The **Generated Reports** window is displayed with instance details of the report that was scheduled.

Figure 61: Generated Reports



### What to do next

Proceed to review your report instance in **Generated Reports** window.

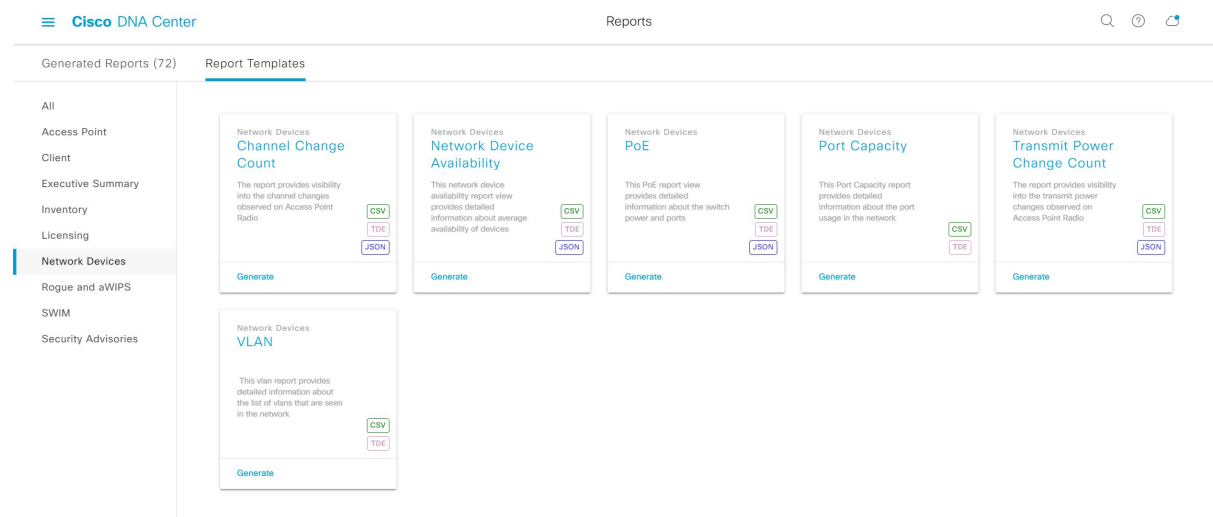


**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## Run a Network Devices Report

Perform this procedure to configure **Network Devices** reports for your network. You can configure **Network Devices** reports using the **Reports** window in the Cisco DNA Center GUI.

**Figure 62: Network Devices Reports**



### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA Center release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks as described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), choose **Provision** > **Inventory** to view the results.

### Step 1

In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports** > **Report Templates**.

The **Report Templates** window opens and displays the supported reporting categories. Each category is represented by link. Click a link to view only the supported reports for that category.

For this release, reporting is supported for the following categories:

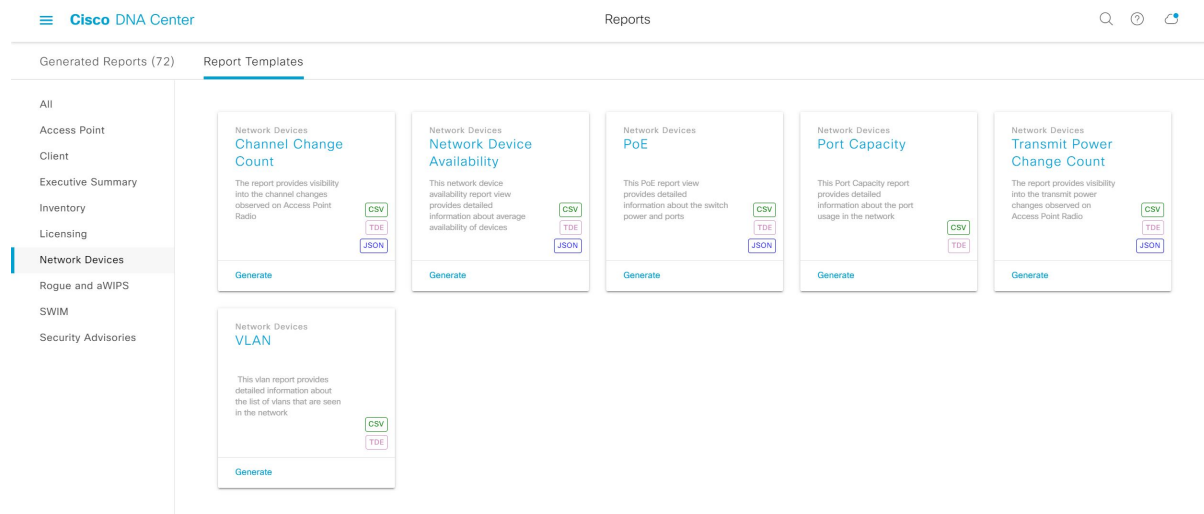
- **Access Point:** Reports that provide data about Access Points and Access Point Radios.
- **Client:** Reports that help with analyzing how the clients are performing in the network.
- **Executive Summary:** Report that helps with analyzing how devices, applications, and clients are performing in the network.
- **Inventory:** Report that lists devices discovered by Cisco DNA Center.
- **Licensing:** Reports that list noncompliant devices and the reasons for noncompliance.
- **Network Devices:** Reports that provide data about the devices in your network.
- **Rogue and aWIPS:** Reports that provide data about threats in your network.
- **SWIM:** Report that lists the software and version of the devices in your network.
- **Security Advisories:** Report that provides Cisco security advisory information on the network devices.

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

## Step 2

After clicking a link, review the **Report Templates** window for that selected category.

**Figure 63: Network Devices Reports**



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for a **Network Devices** report you can create a **Channel Change Count**, **Network Device Availability**, **PoE**, **Port Capacity**, **Transmit Power Change Count**, or **VLAN** report. Within the tile are also icons that represent the supported file types for the reports (CSV, TDE, or JSON).

## Step 3

In the tile, click the header to view a sample report.

A window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report. The following data is presented:

- Applied filters (data filters that were used to build the report).

- Data metrics and summaries
- Graphical representation of the data (including line, bar, and pie graphs).
- Tables that assist you in analyzing the data.

**Note** You can use the sample report to plan how you want your report to look.

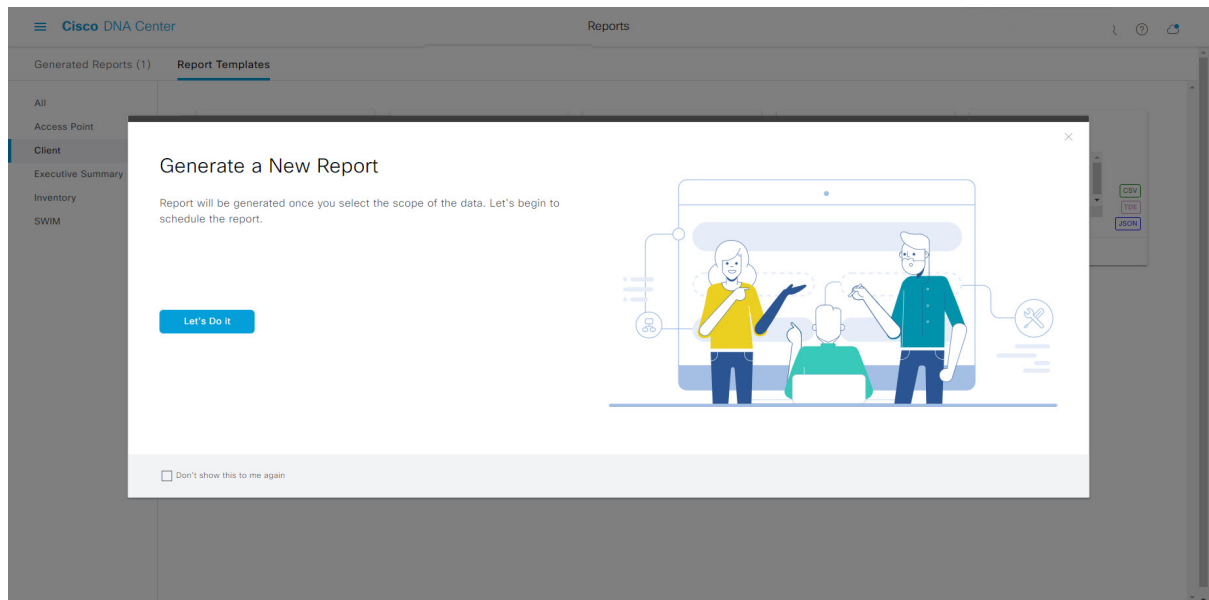
**Step 4** Click **X** to close the preview.

**Step 5** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 6** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 64: Generate a New Report**



The **Setup the Report Template** window opens.

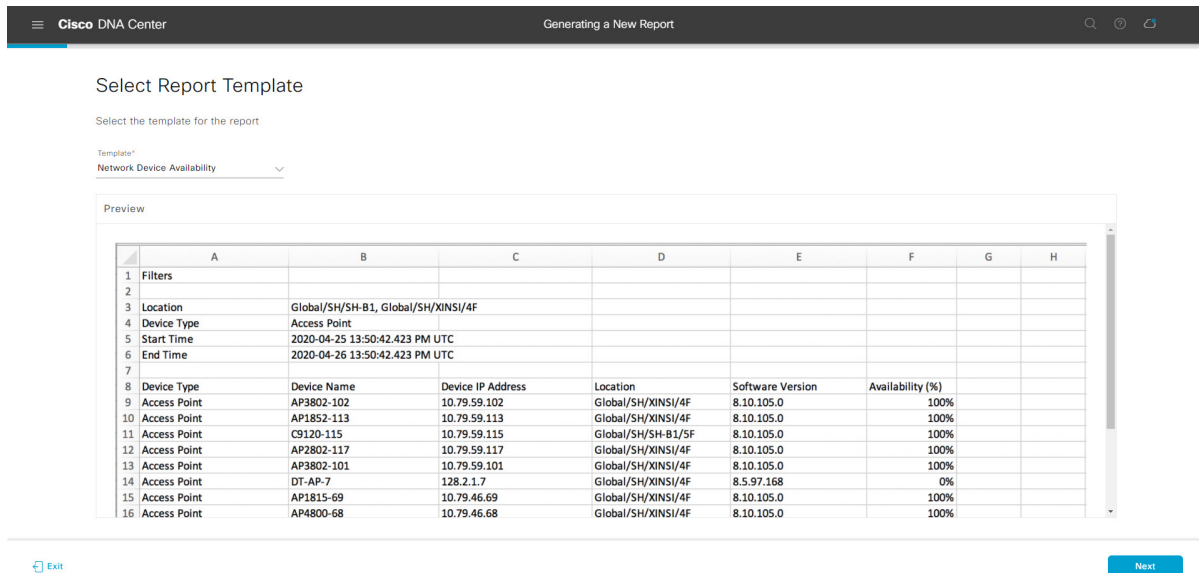
**Step 7** In the **Setup the Report Template** window, select the template for the report.

Choose the **Template** from the drop-down menus.

**Note** The **Template** consists of the individual report types within the categories for the release.

You can review an auto-generated sample in the same window.

Figure 65: Setup Report Template



Click **Next** to proceed. The **Setup Report Scope** window opens.

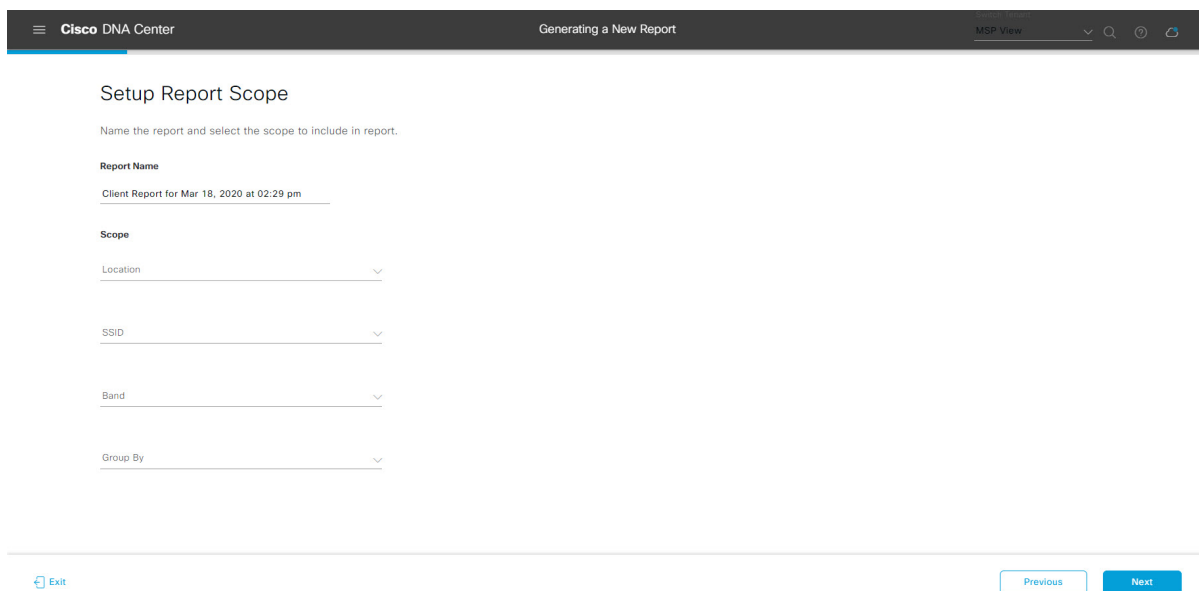
**Step 8**

In the **Setup Report Scope** window, name the report and select the scope.

Enter a report name in the **Report Name** field and click in the **Scope** field to display the available filter. Click on the filter options that you want for the report.

**Note** The **Setup Report Scope** options will change depending upon the selected **Template**.

Figure 66: Setup Report Scope



Click **Next** to proceed. The **Select File Type** window opens.

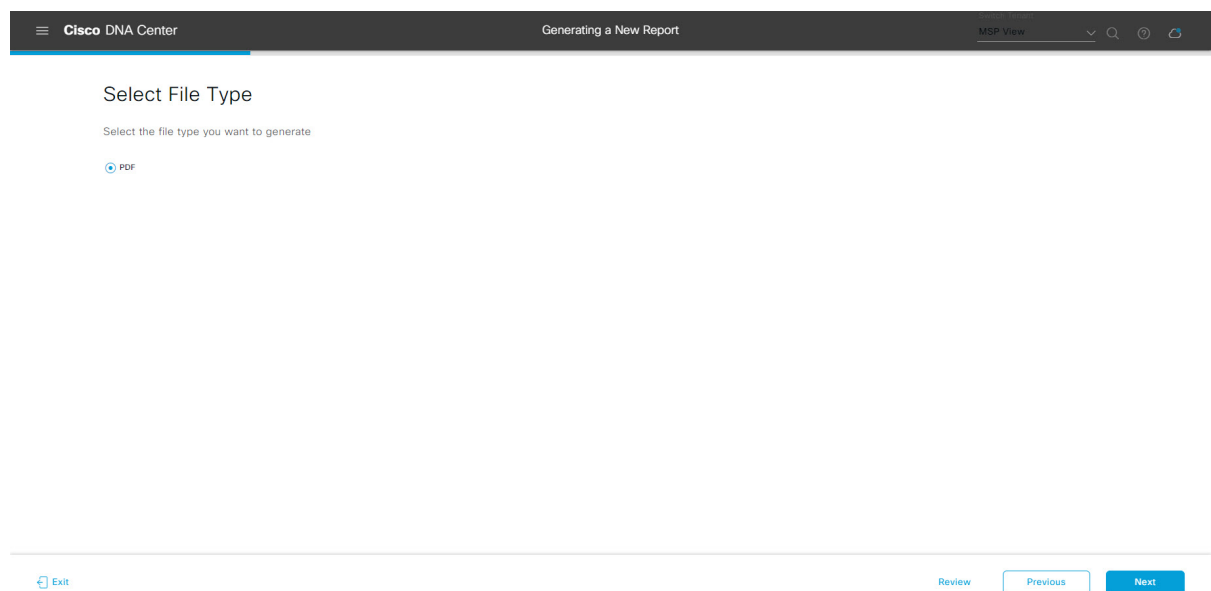
**Step 9** In the **Select File Type** window, select the file type for the report.

Depending upon the report that you are creating, the following **File Type** options may be available:

- PDF
- CSV
- Tableau Data Extract
- JSON

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option will display that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

**Figure 67: Select File Type**



Click **Next** to proceed. The **Schedule Report** window opens.

**Step 10** In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- Last 3 hours
- Last 24 hours
- Last 7 days
- Custom

**Note** Clicking **Custom** opens up fields where you can choose the date and time interval per the specific report type, as well as the time zone (GMT) for the time range.

The following **Schedule** options are available:

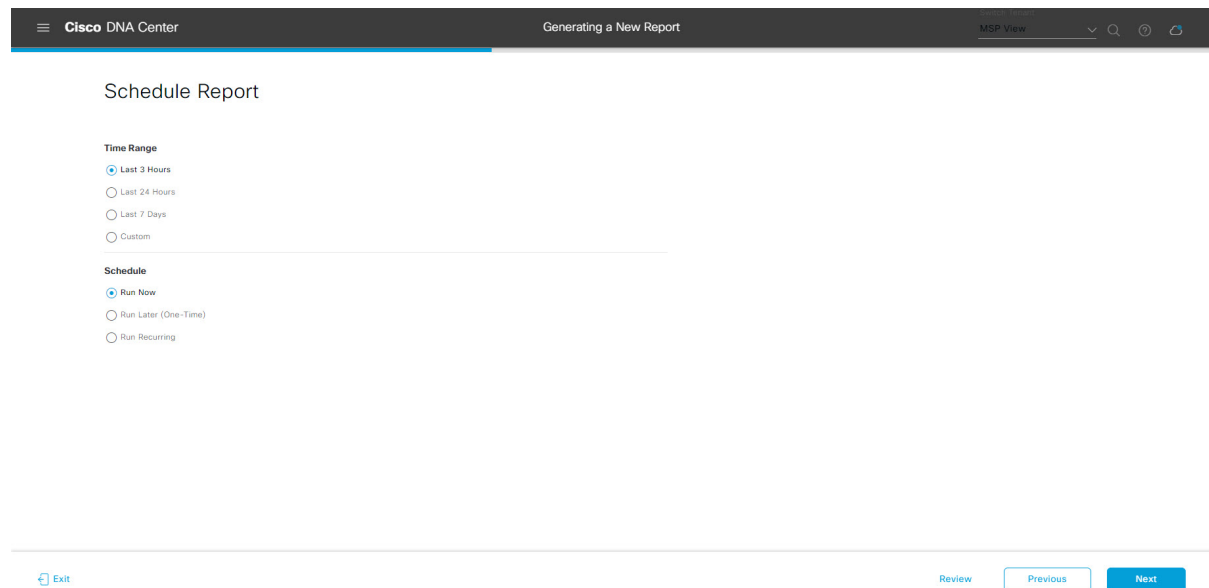
- Run Now

- **Run Later**
- **Run Recurring**

You can also select a timezone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 68: Schedule Report**



Click **Next** to proceed. The **Delivery and Notification** window opens.

### Step 11

In the **Delivery and Notification** window, select the delivery mechanism for the report.

The options include:

- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not yet configured a SMTP server for the emails, you will be prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure a SMTP server. Click **System** > **Settings** > **External Services** > **Destinations** > **Email**.

- **Link:** The email notification of a successfully compiled report will have a link back to itself and the **Generated Reports** page under **Reports**. You can view and download the report from this link and location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

- **Attachment:** Report is attached to the email notification.



**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

Cisco DNA Center sends the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down menu (**Subscription Profile** field).
- Note** If you have not yet created a webhook, you will be prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System > Settings > External Services > Destinations > Webhook** tab.

You will receive status webhook notifications for the report. For example, you will receive "In Queue", "In Progress", and "Success" webhook notifications. You will also be able to view these notifications in the GUI.

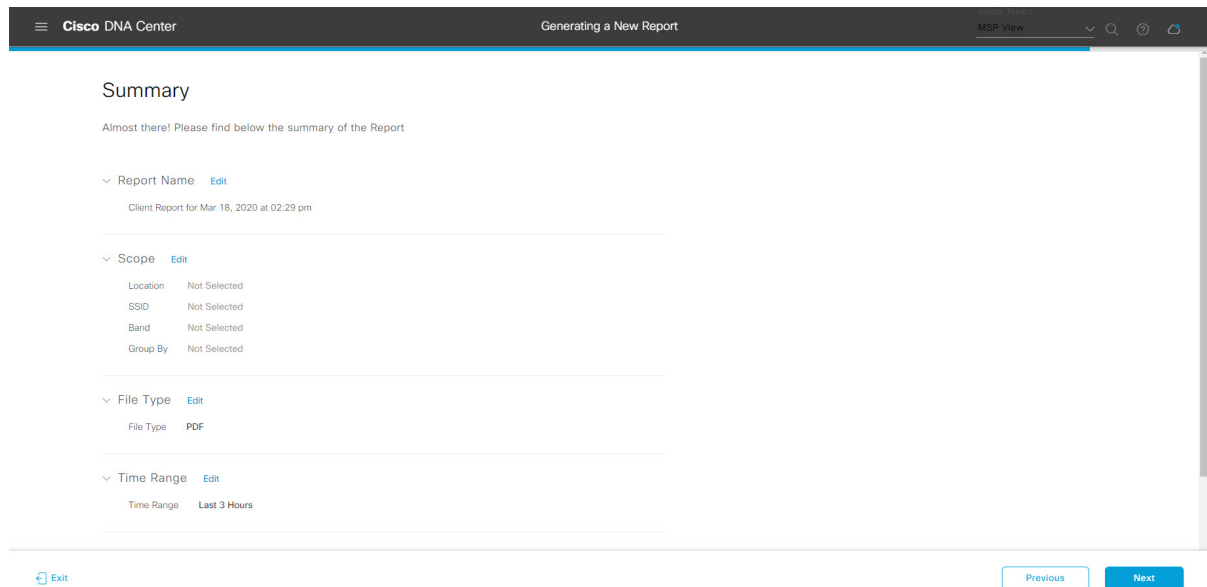
**Figure 69: Delivery and Notification**

The screenshot shows the Cisco DNA Center interface for configuring report delivery and notification. The breadcrumb trail is "Cisco DNA Center > Generating a New Report". The page title is "Delivery and Notification". Under the "Email Report" section, the "As a Link" radio button is selected. Below it is an "Add Email" text input field. Under the "Webhook Notification" section, there is a "Subscription Profile" dropdown menu. At the bottom of the page, there are four buttons: "Exit", "Review", "Previous", and "Next".

Click **Next** to proceed. The **Summary** window opens.

**Step 12** In the **Summary** window, review the configuration and if necessary edit any of the files.

Figure 70: Summary



Click the **Next** button.

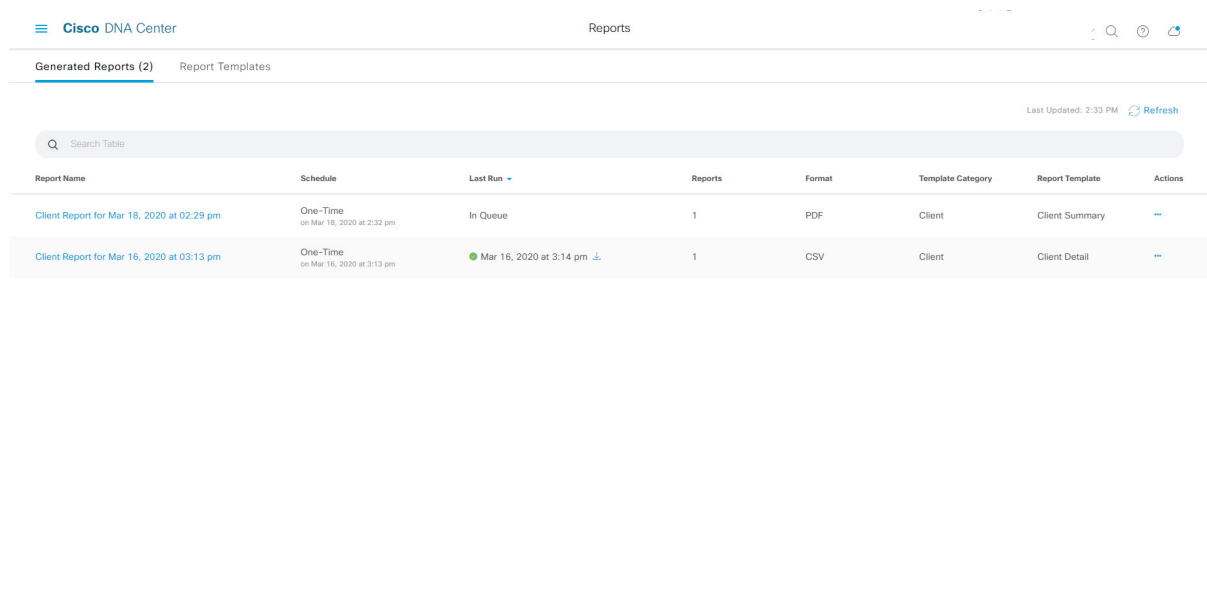
After the report is generated, a success window appears.

**Step 13**

Click the **View the Generated Reports** link.

The **Generated Reports** window opens with instance details of the report that was scheduled.

Figure 71: Generated Reports



### What to do next

Proceed to review your report instance in **Generated Reports** window.

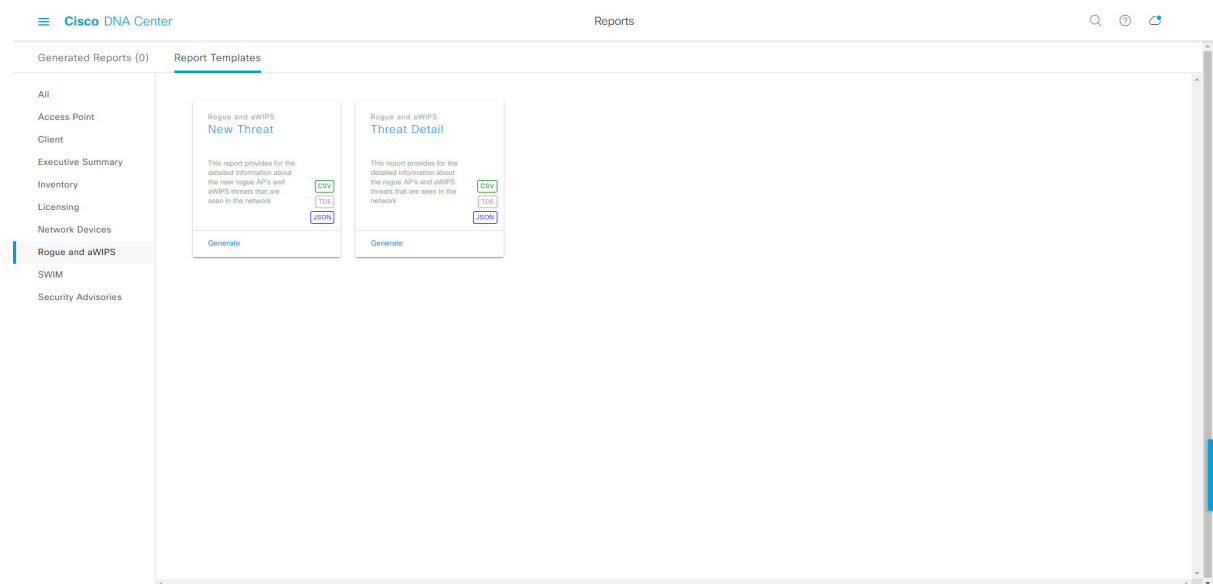


**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## Run a Rogue and aWIPS Report

Perform this procedure to configure **Rogue and aWIPS** reports for your network. You can configure **Rogue and aWIPS** reports using the **Reports** window in the Cisco DNA Center GUI.

**Figure 72: Rogue and aWIPS Reports**



### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks as described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), choose **Provision** > **Inventory** to view the results.

### Step 1

In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports** > **Report Templates**.

The **Report Templates** window opens and displays the supported reporting categories. A link represents each category. Click a link to view only the supported reports for that category.

For this release, reporting is supported for the following categories:

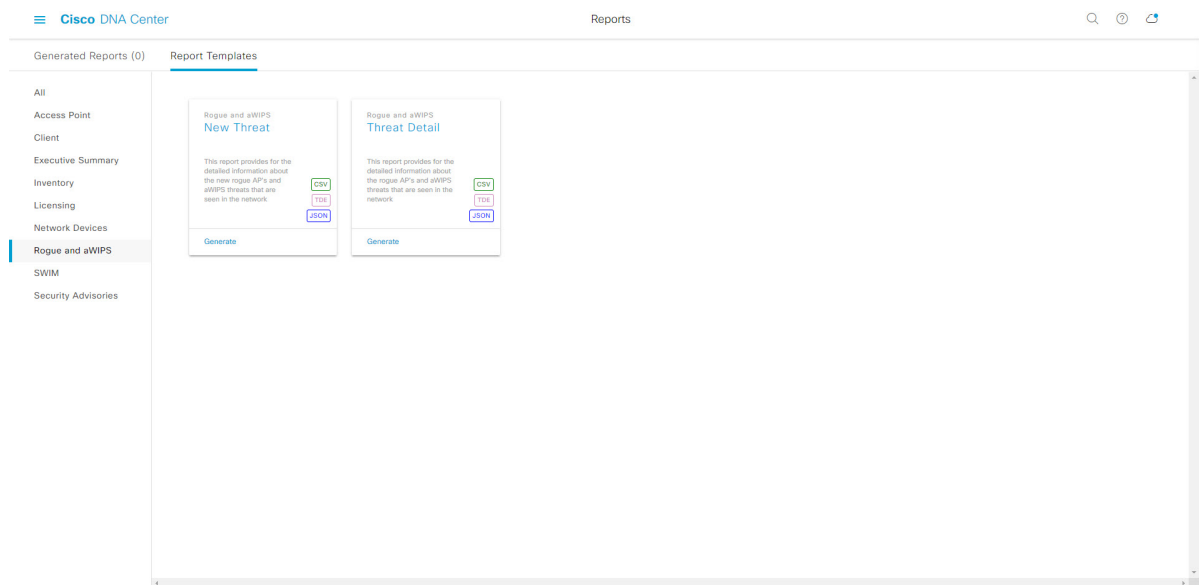
- **Access Point:** Reports that provide data about Access Points and Access Point Radios.
- **Client:** Reports that help with analyzing how the clients are performing in the network.
- **Executive Summary:** Report that helps with analyzing how devices, applications, and clients are performing in the network.
- **Inventory:** Report listing devices discovered by Cisco DNA Center.
- **Licensing:** Reports that lists devices that noncompliant devices and the reasons for noncompliance.
- **Network Devices:** Reports that provide data about the devices within your network.
- **Rogue and aWIPS:** Reports that provide data about threats within your network.
- **SWIM:** Report listing all the devices in network with software and versioning.
- **Security Advisories:** Report that provides Cisco security advisory information on the network devices.

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

## Step 2

After clicking a link, review the **Report Templates** window for that selected category.

**Figure 73: Reports Templates Window**



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for a **Rogue and aWIPS** report you can create a **New Threat** or **Thread Detail** report. Within the tile are also icons that represent the supported file types for the reports (CSV, TDE, or JSON).

## Step 3

In the tile, click the header to view a sample report.

A window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report. The following data is presented:

- Applied filters (data filters that were used to build the report).
- Data metrics and summaries
- Graphical representation of the data (including line, bar, and pie graphs).
- Tables that assist you in analyzing the data.

**Note** You can use the sample report to plan how you want your report to look.

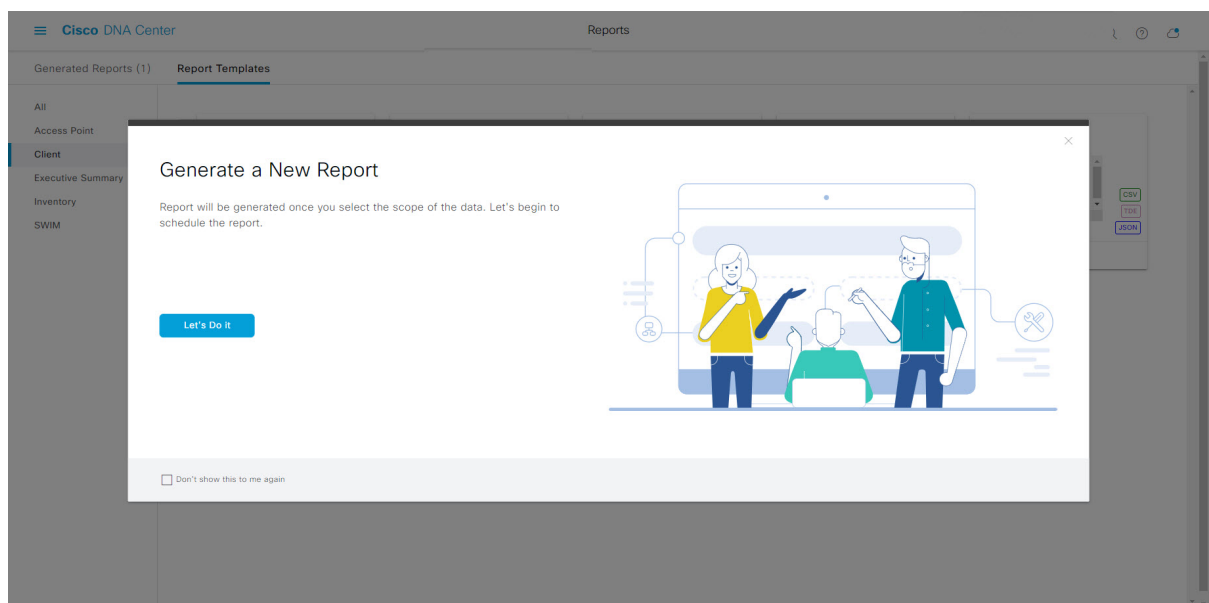
**Step 4** Click **X** to close the preview.

**Step 5** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 6** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 74: Generate a New Report**



The **Select Report Template** window opens.

**Step 7** In the **Select Report Template** window, select the template for the report.

Choose the **Template** from the drop-down lists.

**Note** The **Template** consists of the individual report types within the categories for the release.

You can review an autogenerated sample in the same window.

Figure 75: Setup Report Template



Click **Next** to proceed. The **Setup Report Scope** window opens.

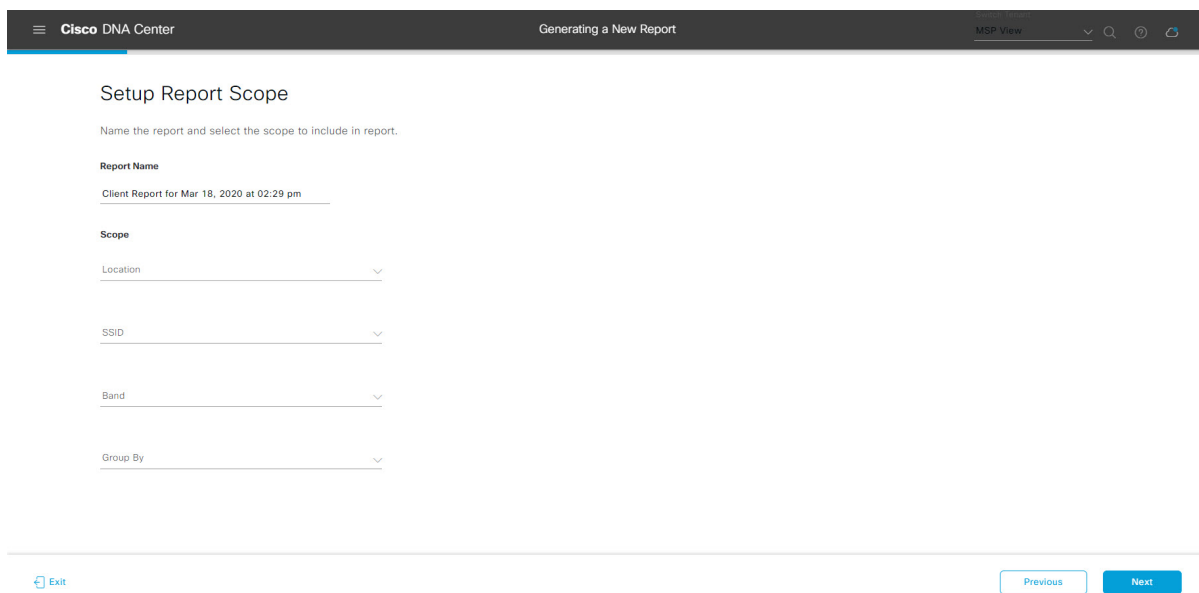
**Step 8**

In the **Setup Report Scope** window, name the report and select the scope.

Enter a report name in the **Report Name** field and click in the **Scope** field to display the available filter. Click the filter options that you want for the report.

**Note** The **Setup Report Scope** options change depending upon the selected **Template**.

Figure 76: Setup Report Scope



Click **Next** to proceed. The **Select File Type** window opens.

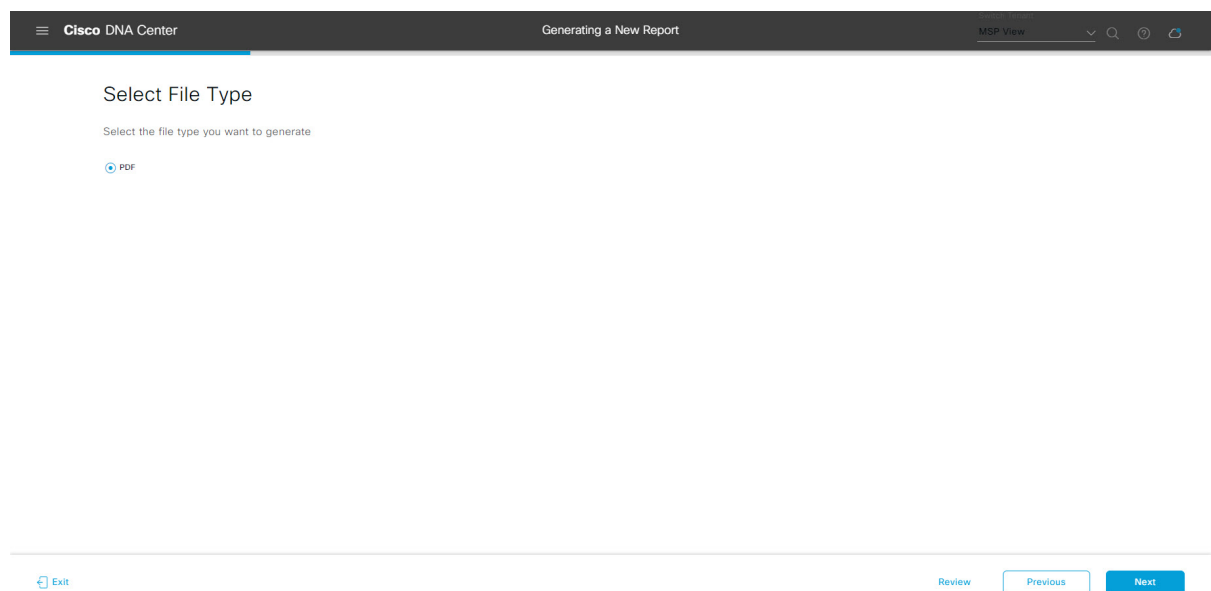
**Step 9** In the **Select File Type** window, select the file type for the report.

Depending upon the report that you are creating, the following **File Type** options may be available:

- PDF
- CSV
- Tableau Data Extract
- JSON

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option displays that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

**Figure 77: Select File Type**



Click **Next** to proceed. The **Schedule Report** window opens.

**Step 10** In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- Last 3 hours
- Last 24 hours
- Last 7 days
- Custom

**Note** Clicking **Custom** opens up fields where you can choose the date and time interval per the specific report type, as well as the time zone (GMT) for the time range.

The following **Schedule** options are available:

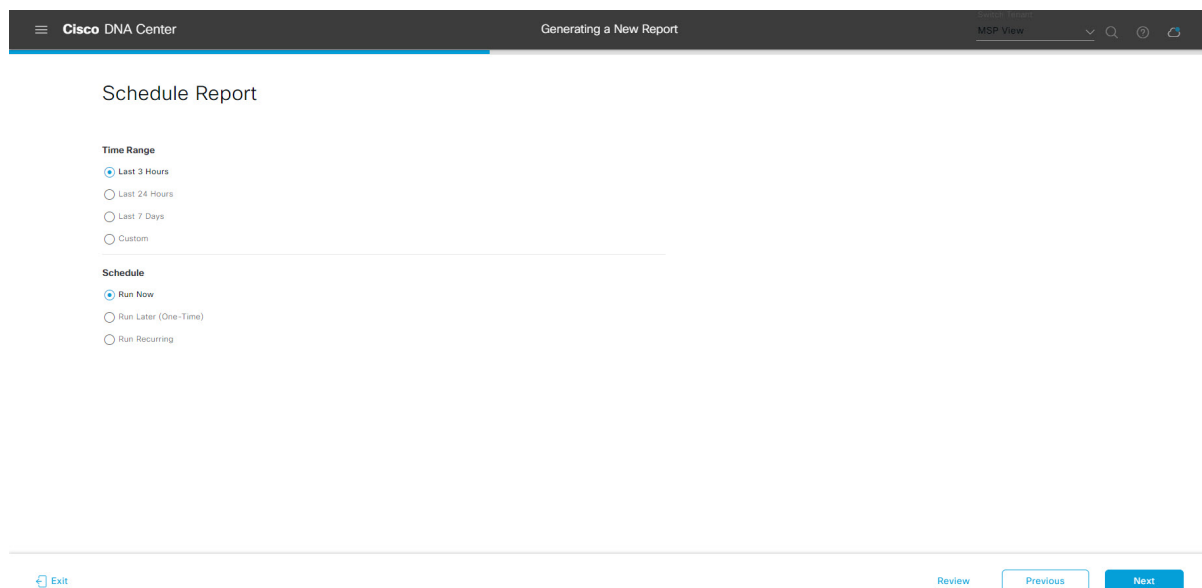
- Run Now

- **Run Later**
- **Run Recurring**

You can also select a time zone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 78: Schedule Report**



Click **Next** to proceed. The **Delivery and Notification** window opens.

### Step 11

In the **Delivery and Notification** window, select the Delivery mechanism for the report.

The options include:

- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not yet configured an SMTP server for the emails, you will be prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure an SMTP server. Click **System > Settings > External Services > Destinations > Email**.

- **Link:** The email notification of a successfully compiled report has a link back to itself and the **Generated Reports** page under **Reports**. You can view and download the report from this link and location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

- **Attachment:** Report is attached to the email notification.



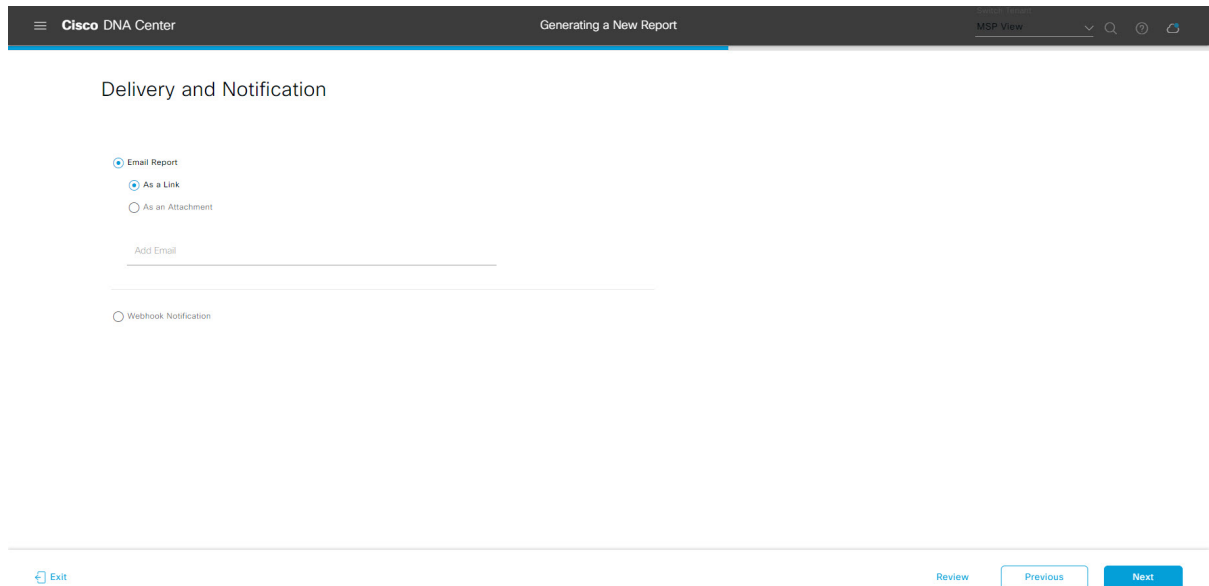
**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

Cisco DNA Center sends the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down list (**Subscription Profile** field).
- Note** If you have not yet created a webhook, you will be prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System > Settings > External Services > Destinations > Webhook** tab.

You will receive status webhook notifications for the report. For example, you will receive "In Queue", "In Progress", and "Success" webhook notifications. You will also be able to view these notifications in the GUI.

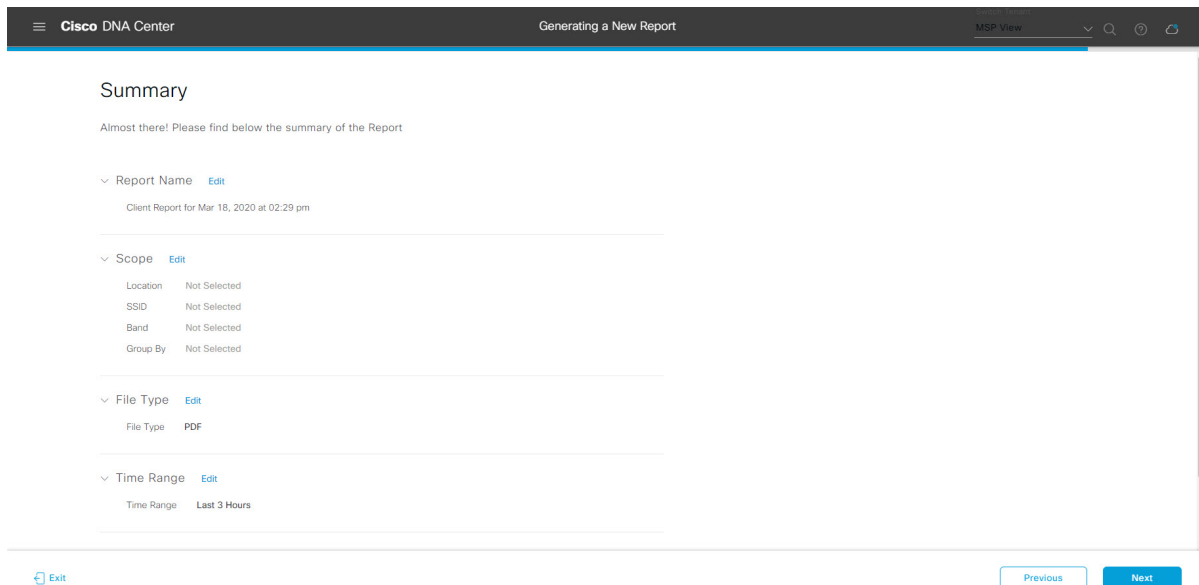
**Figure 79: Delivery and Notification**



Click **Next** to proceed. The **Summary** window opens.

**Step 12** In the **Summary** window, review the configuration and if necessary edit any of the files.

Figure 80: Summary



Click the **Next** button.

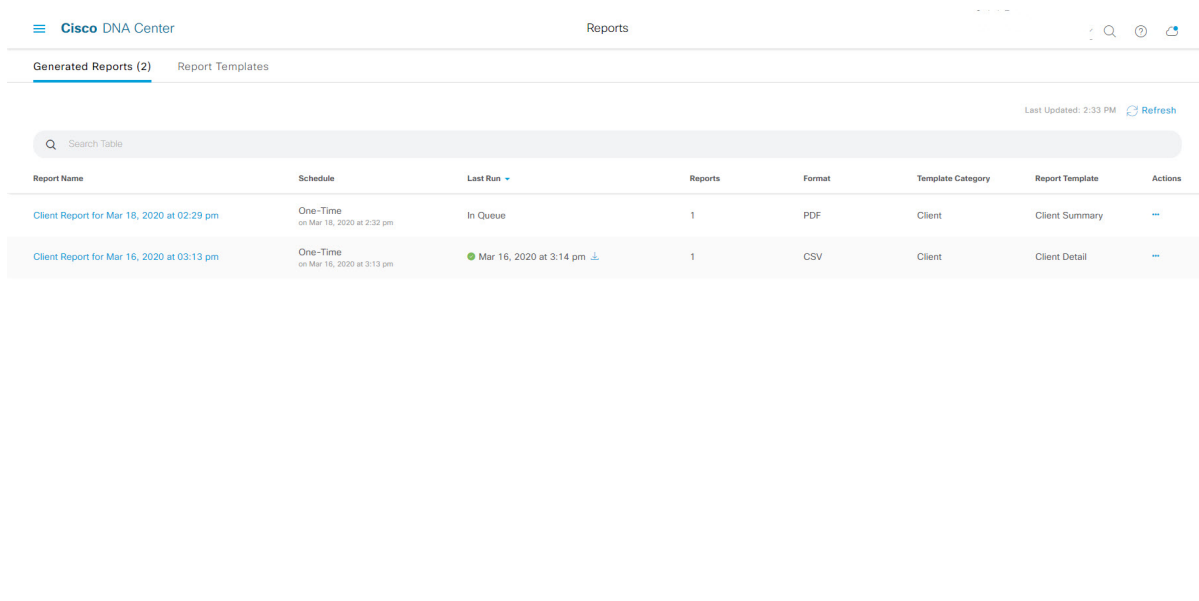
After the report is generated, a success window appears.

**Step 13**

Click the **View the Generated Reports** link.

The **Generated Reports** window opens with instance details of the report that was scheduled.

Figure 81: Generated Reports



### What to do next

Proceed to review your report instance in **Generated Reports** window.

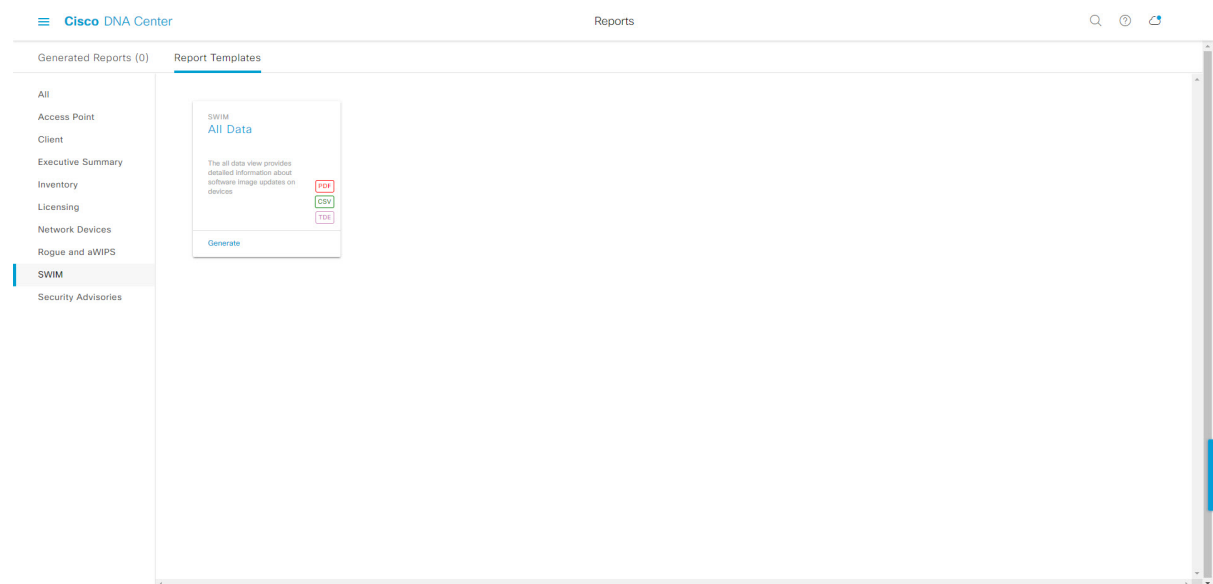


**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## Run a SWIM Report

Perform this procedure to configure **SWIM** reports about your network. You can configure **SWIM** reports using the **Reports** window in the Cisco DNA Center GUI.

**Figure 82: SWIM Reports**



### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks as described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), choose **Provision** > **Inventory** to view the results.

### Step 1

In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports** > **Report Templates**.

The **Report Templates** window opens and displays the supported reporting categories. A link represents each category. Click a link to view only the supported reports for that category.

For this release, reporting is supported for the following categories:

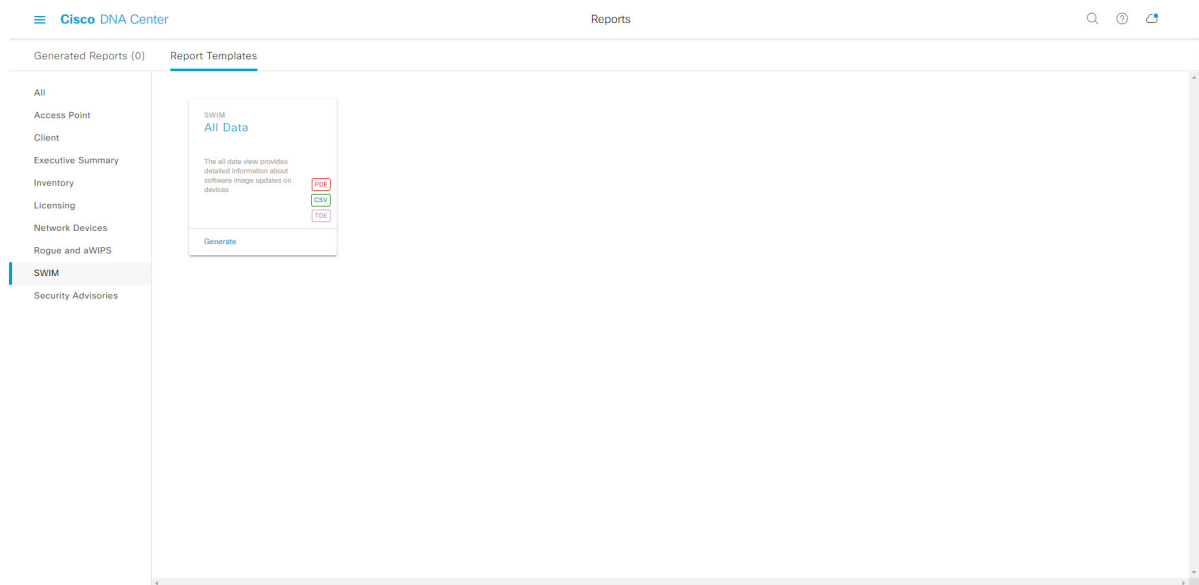
- **Access Point:** Reports that provide data about Access Points and Access Point Radios.
- **Client:** Reports that help with analyzing how the clients are performing in the network.
- **Executive Summary:** Report that helps with analyzing how devices, applications, and clients are performing in the network.
- **Inventory:** Report listing devices discovered by Cisco DNA Center.
- **Licensing:** Reports that lists devices that noncompliant devices and the reasons for noncompliance.
- **Network Devices:** Reports that provide data about the devices within your network.
- **Rogue and aWIPS:** Reports that provide data about threats within your network.
- **SWIM:** Report listing all the devices in network with software and versioning.
- **Security Advisories:** Report that provides Cisco security advisory information on the network devices.

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

## Step 2

After clicking a link, review the **Report Templates** window for that selected category.

**Figure 83: Report Templates Window**



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for a **SWIM** report you can create an **All Data** report. Within the tile are also icons that represent the supported file types for the reports (PDF, CSV, or TDE).

## Step 3

In the tile, click the header to view a sample report.

A window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report. The following data is presented:

- Applied filters (data filters that were used to build the report).
- Data metrics and summaries
- Tables that assist you in analyzing the data.

**Note** You can use the sample report to plan how you want your report to look.

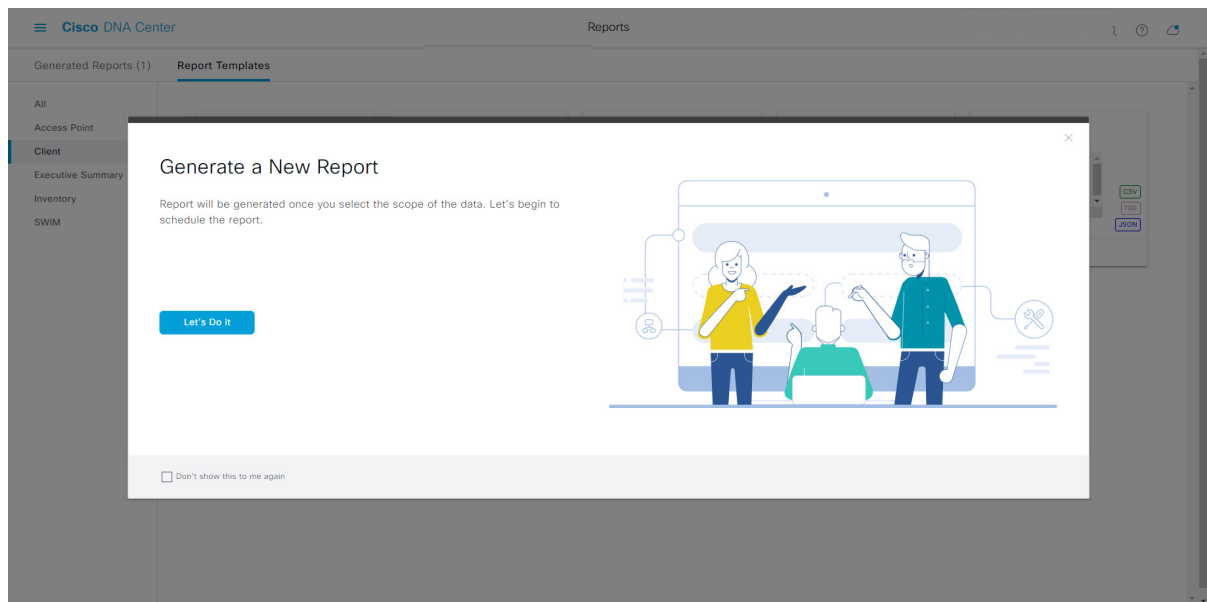
**Step 4** Click **X** to close the preview.

**Step 5** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 6** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 84: Generate a New Report**



The **Select Report Template** window opens.

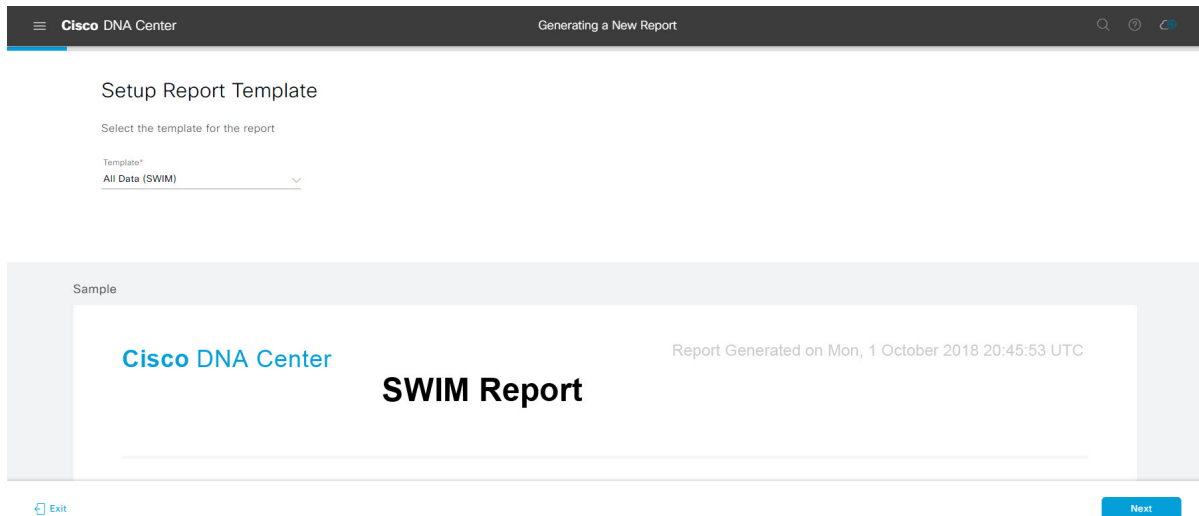
**Step 7** In the **Select Report Template** window, select the template for the report.

Choose the **Template** from the drop-down lists.

**Note** The **Template** consists of the individual report types within the categories for the release.

You can review an autogenerated sample in the same window.

Figure 85: Setup Report Template



Click **Next** to proceed. The **Setup Report Scope** window opens.

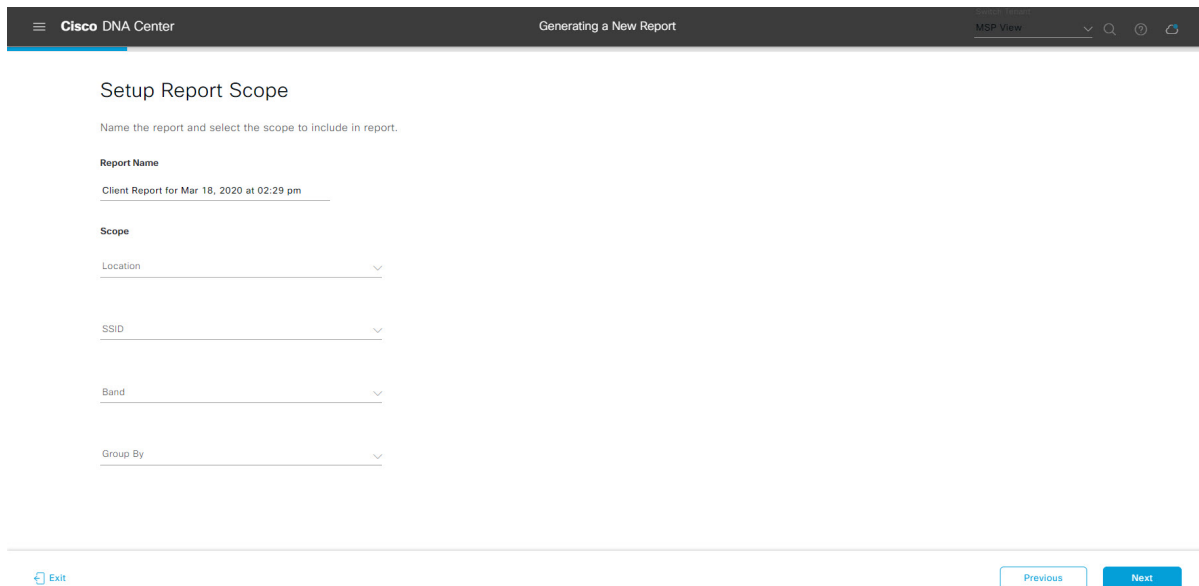
**Step 8**

In the **Setup Report Scope** window, name the report and select the scope.

Enter a report name in the **Report Name** field and click in the **Scope** field to display the available filter. Click the filter options that you want for the report.

**Note** The **Setup Report Scope** options change depending upon the selected **Template**.

Figure 86: Setup Report Scope



Click **Next** to proceed. The **Select File Type** window opens.

**Step 9**

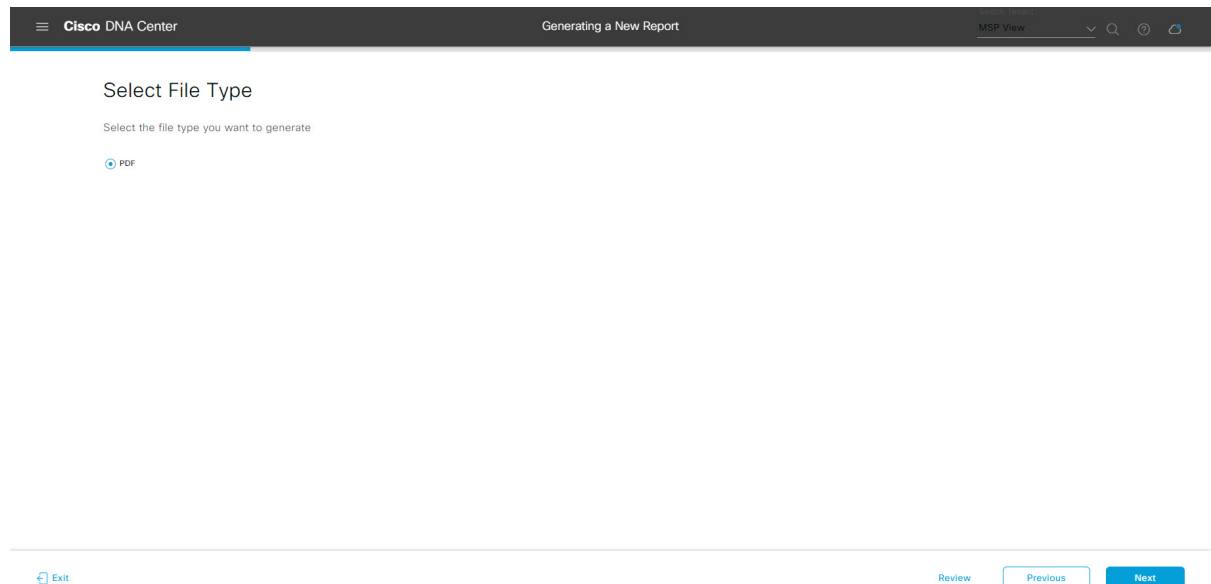
In the **Select File Type** window, select the file type for the report.

Depending upon the report that you are creating, the following **File Type** options may be available:

- **PDF**
- **CSV**
- **Tableau Data Extract**
- **JSON**

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option displays that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

**Figure 87: Select File Type**



Click **Next** to proceed. The **Schedule Report** window opens.

### Step 10

In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- **Last 3 hours**
- **Last 24 hours**
- **Last 7 days**
- **Custom**

**Note** Clicking **Custom** opens up fields where you can choose the date and time interval per the specific report type, as well as the time zone (GMT) for the time range.

The following **Schedule** options are available:

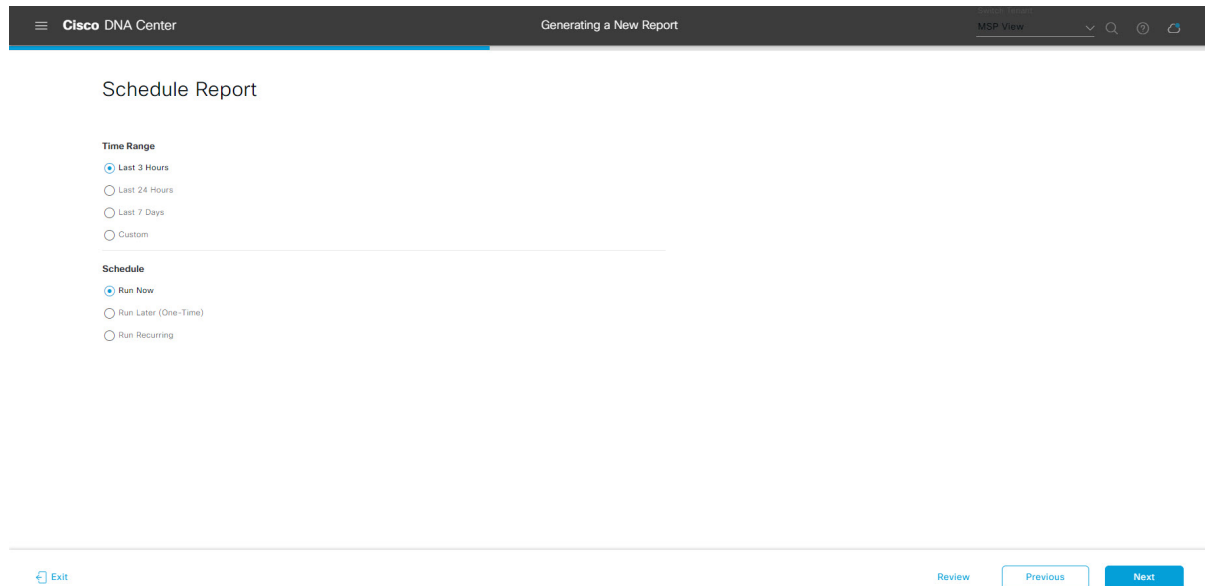
- **Run Now**
- **Run Later**

- **Run Recurring**

You can also select a time zone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 88: Schedule Report**



Click **Next** to proceed. The **Delivery and Notification** window opens.

**Step 11**

In the **Delivery and Notification** window, select the Delivery mechanism for the report.

The options include:

- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not yet configured an SMTP server for the emails, you will be prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure a SMTP server. Click **System > Settings > External Services > Destinations > Email**.

- **Link:** The email notification of a successfully compiled report has a link back to itself and the **Generated Reports** page under **Reports**. You can view and download the report from this link and location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

- **Attachment:** Report is attached to the email notification.



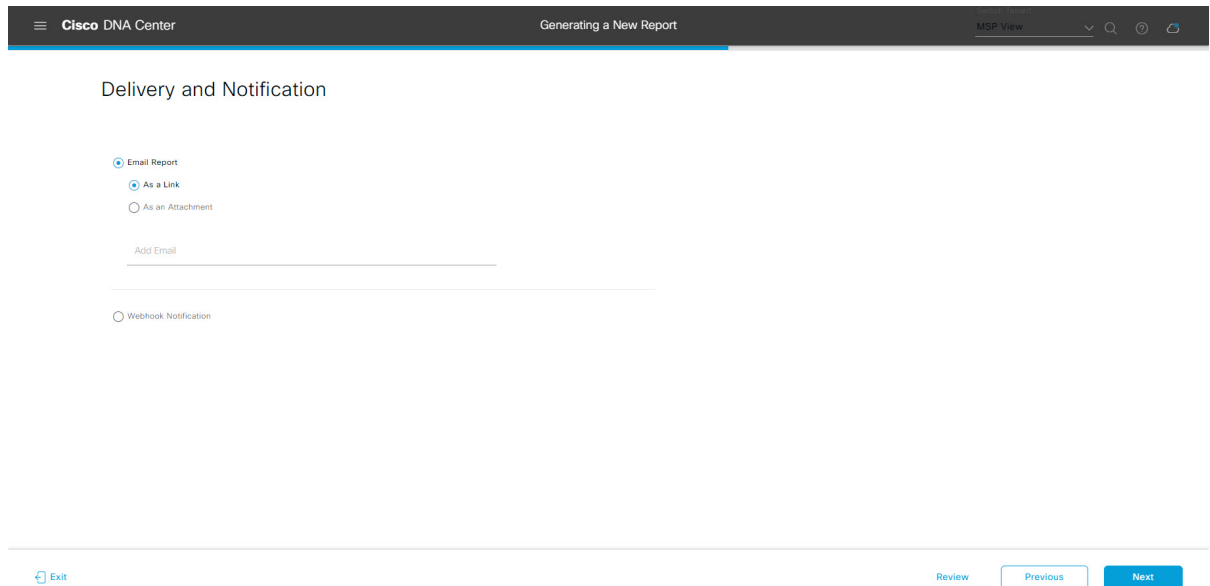
**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

Cisco DNA Center sends the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down list (**Subscription Profile** field).
- Note** If you have not yet created a webhook, you will be prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System > Settings > External Services > Destinations > Webhook** tab.

You will receive status webhook notifications for the report. For example, you will receive "In Queue", "In Progress", and "Success" webhook notifications. You will also be able to view these notifications in the GUI.

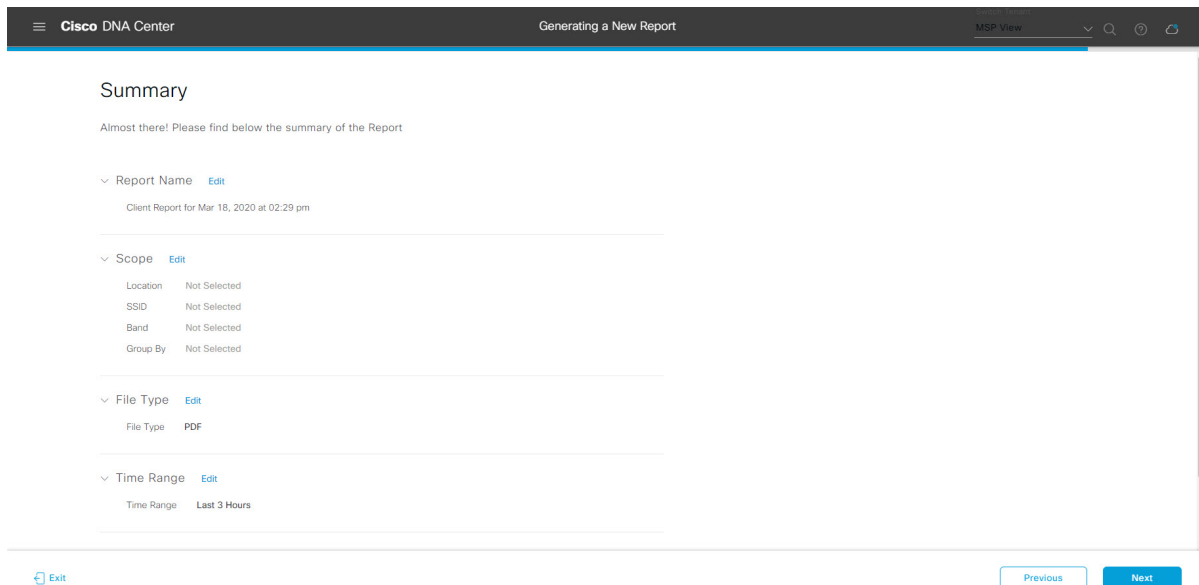
**Figure 89: Delivery and Notification**



Click **Next** to proceed. The **Summary** window opens.

**Step 12** In the **Summary** window, review the configuration and if necessary edit any of the files.

Figure 90: Summary



Click **Next**.

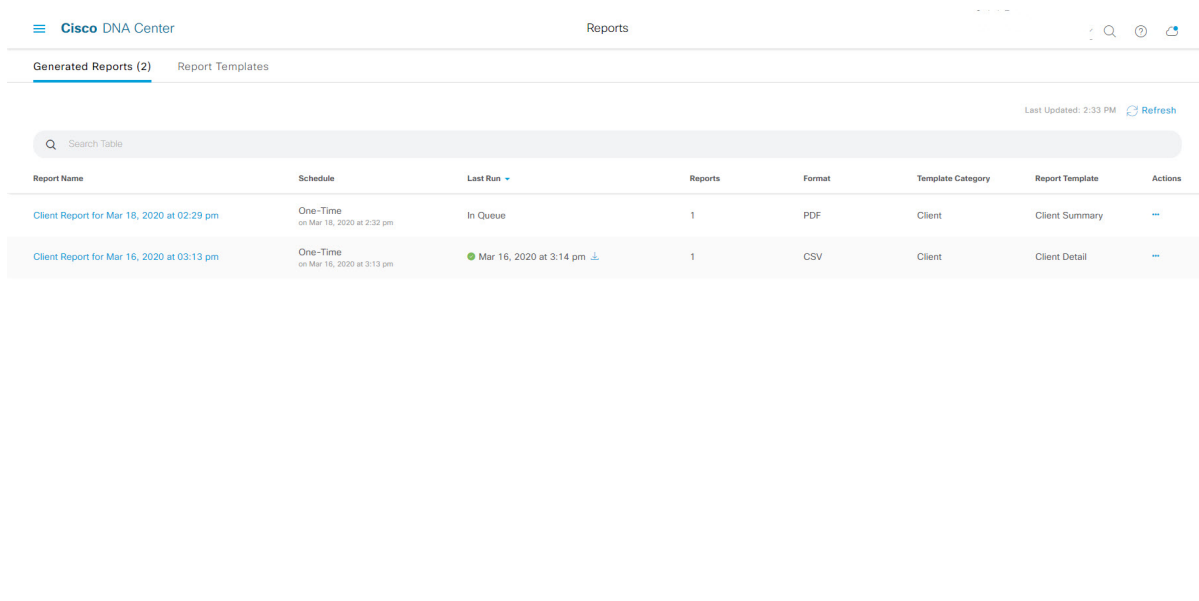
After the report is generated, a success window appears.

**Step 13**

Click the **View the Generated Reports** link.

The **Generated Reports** window opens with instance details of the report that was scheduled.

Figure 91: Generated Reports



### What to do next

Proceed to review your report instance in **Generated Reports** window.

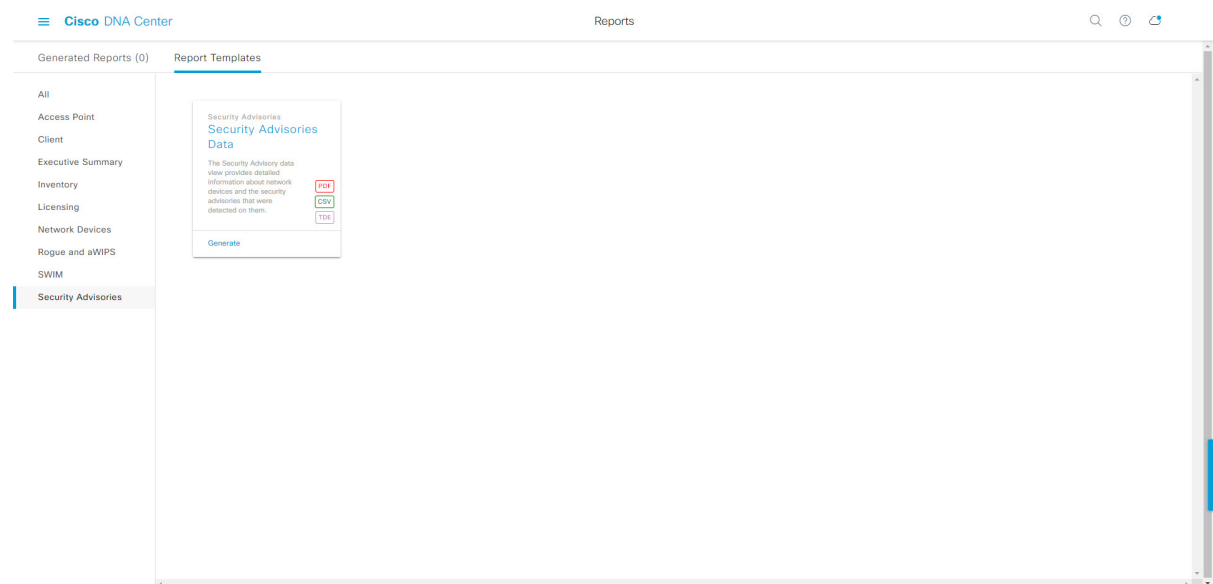


**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## Run a Security Advisories Report

Perform this procedure to configure a **Security Advisories** report about your network. You can configure a **Security Advisories** report using the **Reports** window in the Cisco DNA Center GUI.

**Figure 92: Security Advisories Report**



### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- You must have the appropriate permissions to perform the tasks as described in this procedure. For information about Role-Based Access Control for the Cisco DNA Center platform, see [Role-Based Access Control Support for Platform](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), choose **Provision** > **Inventory** to view the results.

### Step 1

In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports** > **Report Templates**.

The **Report Templates** window opens and displays the supported reporting categories. A link represents each category. Click a link to view only the supported reports for that category.

For this release, reporting is supported for the following categories:

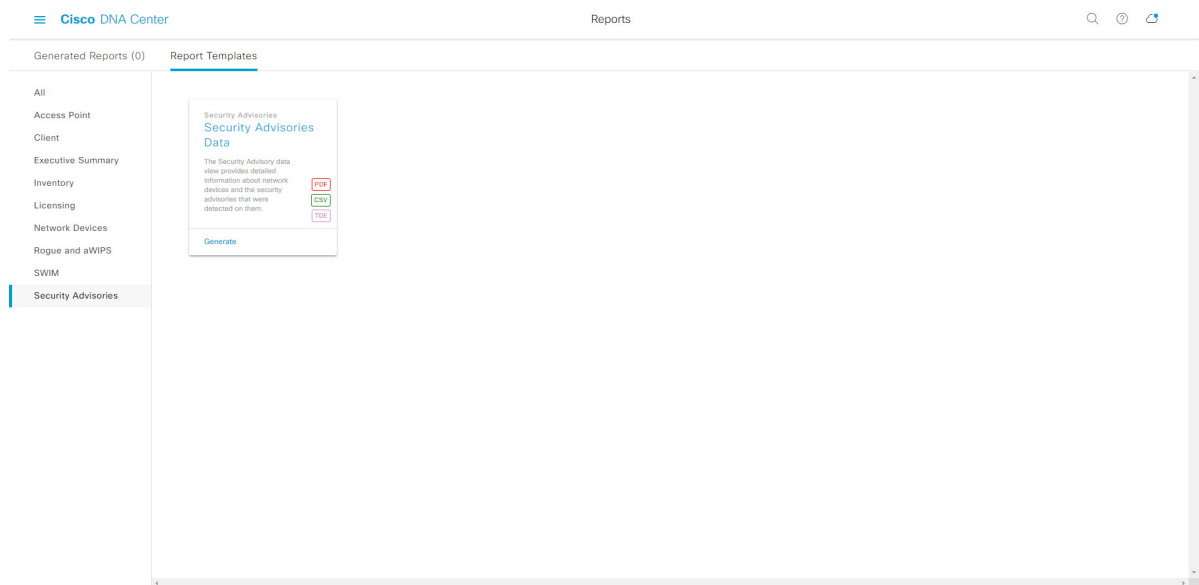
- **Access Point:** Reports that provide data about Access Points and Access Point Radios.
- **Client:** Reports that help with analyzing how the clients are performing in the network.
- **Executive Summary:** Report that helps with analyzing how devices, applications, and clients are performing in the network.
- **Inventory:** Report listing devices discovered by Cisco DNA Center.
- **Licensing:** Reports that lists devices that noncompliant devices and the reasons for noncompliance.
- **Network Devices:** Reports that provide data about the devices within your network.
- **Rogue and aWIPS:** Reports that provide data about threats within your network.
- **SWIM:** Report listing all the devices in network with software and versioning.
- **Security Advisories:** Report that provides Cisco security advisory information on the network devices.

**Note** The Access Point, Client, and Executive Summary reports support up to 90 days of data retention.

## Step 2

After clicking on a link, review the **Report Templates** window for that selected category.

**Figure 93: Report Templates Window**



The **Report Templates** window displays supported report templates. Each template is represented by a tile and contains information about the report and links to configure (generate) a report. Determine which template you wish to use to generate a report. For example, for a **Security Advisories** report you can create a **Security Advisories Data** report. Within the tile are also icons that represent the supported file types for the reports (PDF, CSV, or TDE).

## Step 3

In the tile, click the header to view a sample report.

A window appears for the sample report. Use the side bar in the window to scroll down and review the entire sample report. The following data is presented:

- Applied filters (data filters that were used to build the report).
- Data metrics and summaries
- Tables that assist you in analyzing the data.

**Note** You can use the sample report to plan how you want your report to look.

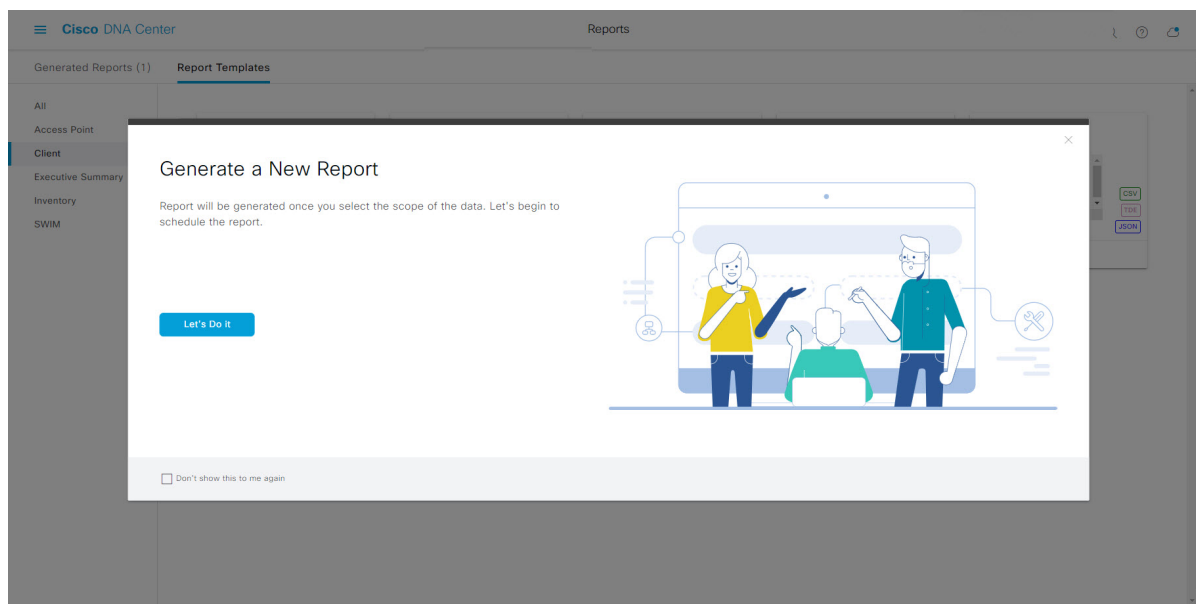
**Step 4** Click **X** to close the preview.

**Step 5** In the tile, click the **Generate** link to configure parameters to build a report.

The **Generate** window opens where you can select a format type for the report, apply data filters for your reports, as well as set up schedules for the actual report generation.

**Step 6** In the **Generate a New Report** window, click **Let's Do It** to get started.

**Figure 94: Generate a New Report**



The **Select Report Template** window opens.

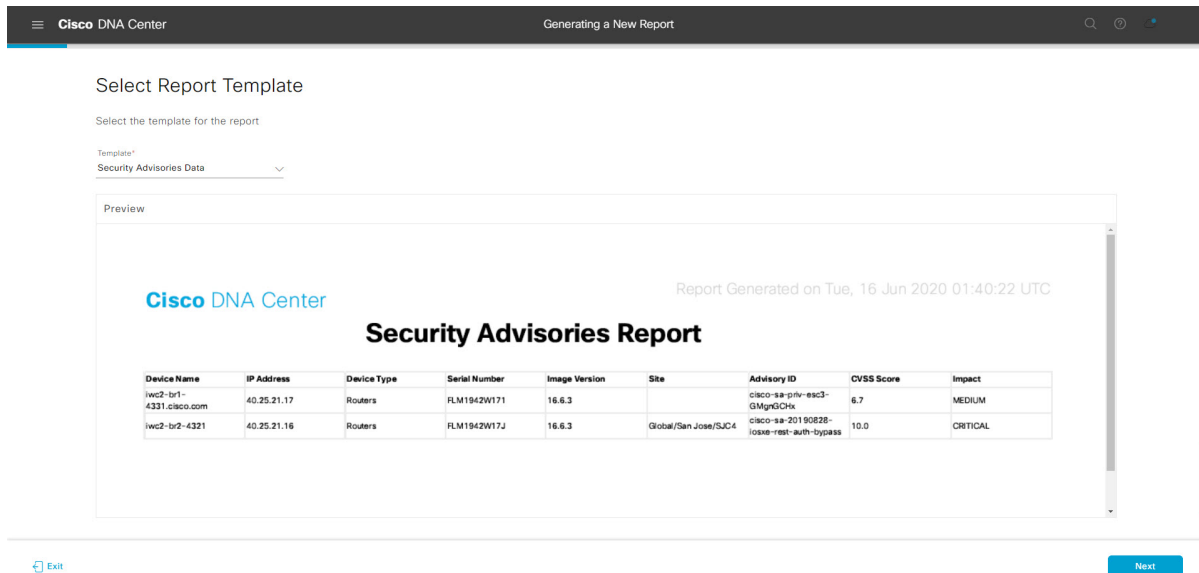
**Step 7** In the **Select Report Template** window, select the template for the report.

Choose the **Template** from the drop-down lists.

**Note** The **Template** consists of the individual report types within the categories for the release.

You can review an autogenerated sample in the same window.

Figure 95: Select Report Template



Click **Next** to proceed. The **Setup Report Scope** window opens.

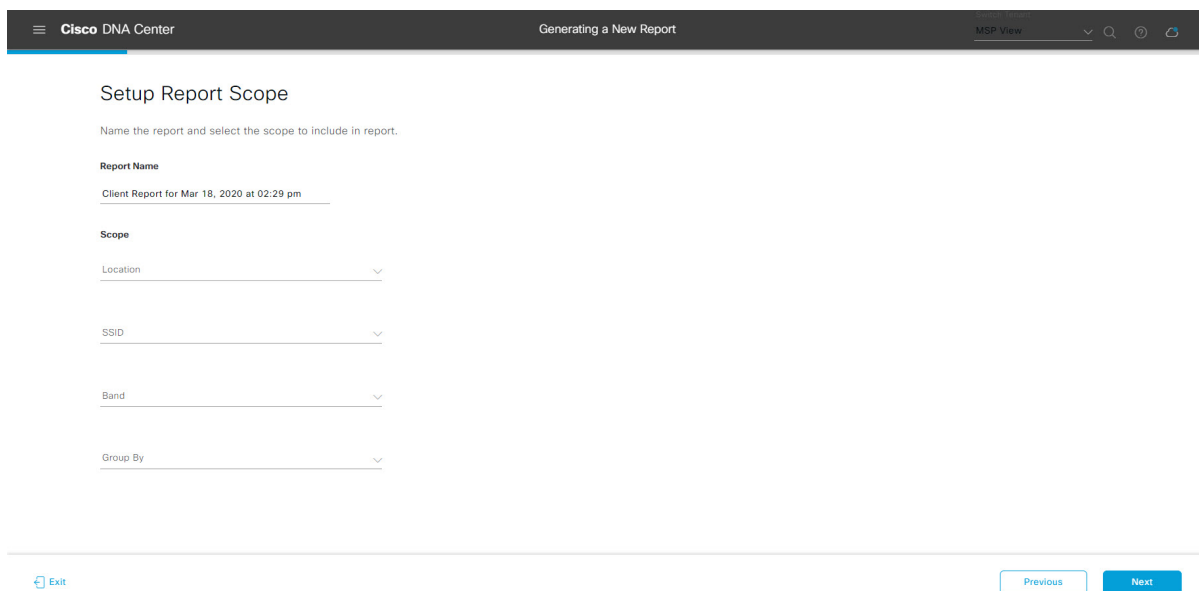
**Step 8**

In the **Setup Report Scope** window, name the report and select the scope.

Enter a report name in the **Report Name** field and click in the **Scope** field to display the available filter. Click the filter options that you want for the report.

**Note** The **Setup Report Scope** options change depending upon the selected **Template**.

Figure 96: Setup Report Scope



Click **Next** to proceed. The **Select File Type** window opens.

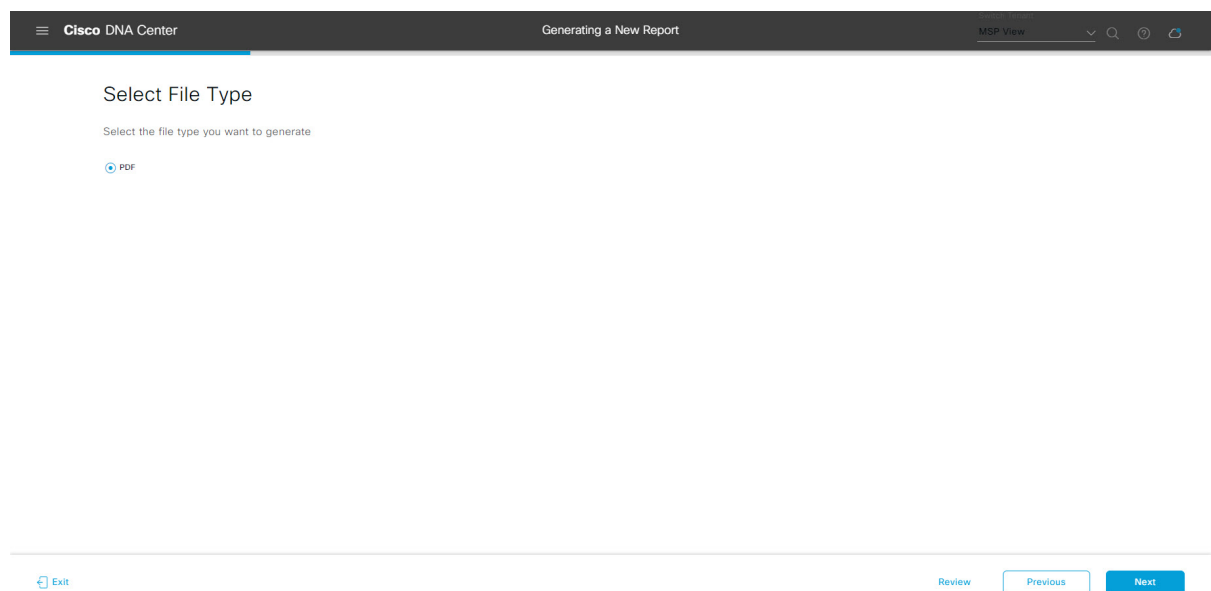
**Step 9** In the **Select File Type** window, select the file type for the report.

Depending upon the report that you are creating, the following **File Type** options may be available:

- PDF
- CSV
- Tableau Data Extract
- JSON

For the **CSV**, **JSON**, and **Tableau Data Extract** file types, a **Fields** option displays that permits you to select attributes (additional fields) for the CSV, JSON, and Tableau Data Extract results.

**Figure 97: Select File Type**



Click **Next** to proceed. The **Schedule Report** window opens.

**Step 10** In the **Schedule Report** window, select the time range and schedule for the report.

The following **Time Range** options are available:

- Last 3 hours
- Last 24 hours
- Last 7 days
- Custom

**Note** Clicking **Custom** opens up fields where you can choose the date and time interval per the specific report type, as well as the time zone (GMT) for the time range.

The following **Schedule** options are available:

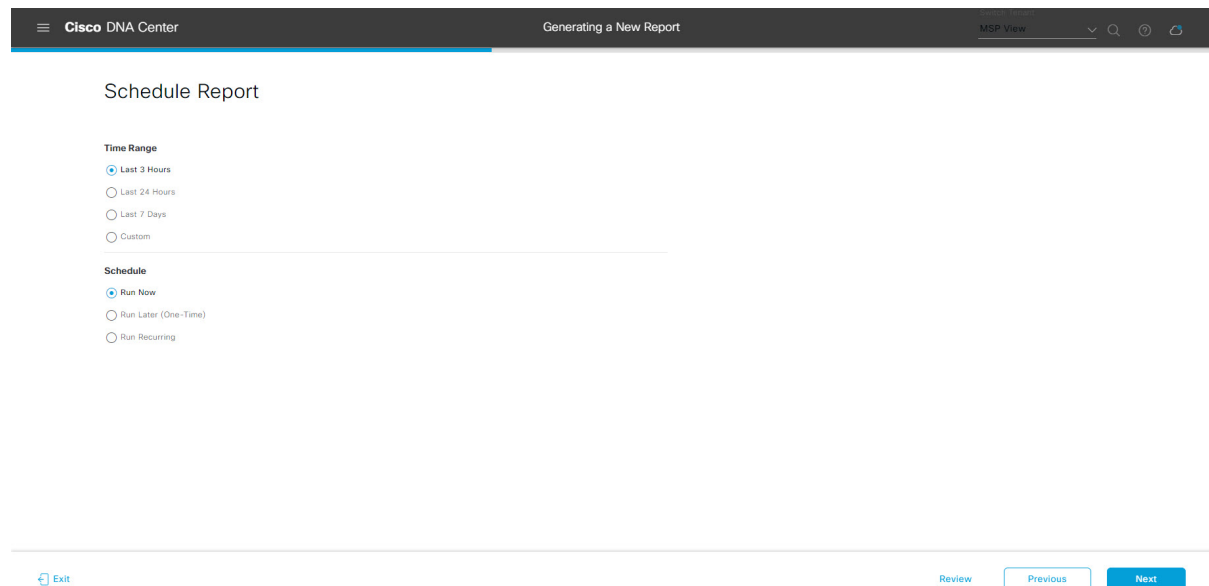
- Run Now

- **Run Later**
- **Run Recurring**

You can also select a time zone for the report when configuring with the following **Schedule** options:

- **Custom**
- **Run Later (One Time)**
- **Run Recurring**

**Figure 98: Schedule Report**



Click **Next** to proceed. The **Delivery and Notification** window opens.

### Step 11

In the **Delivery and Notification** window, select the Delivery mechanism for the report.

The options include:

- **Email Report:** Email report is sent as a link or attachment.

**Note** If you have not yet configured an SMTP server for the emails, you will be prompted to configure one. Follow the prompts to the **Email** tab in the GUI to configure an SMTP server. Click **System > Settings > External Services > Destinations > Email**.

- **Link:** The email notification of a successfully compiled report has a link back to itself and the **Generated Reports** page under **Reports**. You can view and download the report from this link and location.

**Note** Email notifications with embedded links to reports support up to 20 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

- **Attachment:** Report is attached to the email notification.



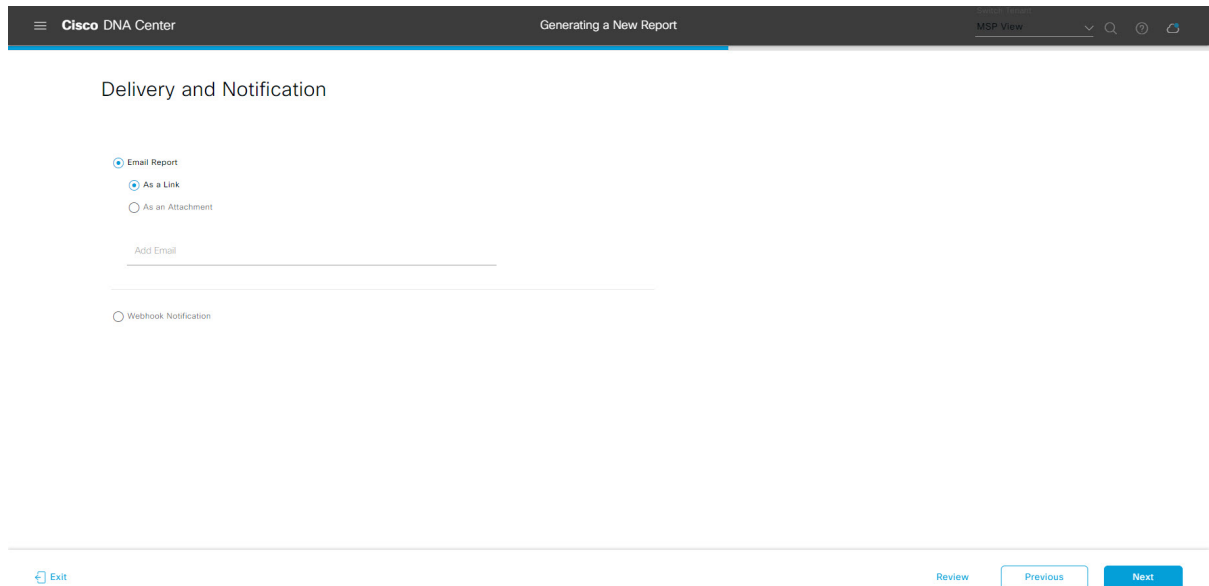
**Note** PDF reports support email notification attachments of up to 20-MB in size and up to 10 email addresses. To add multiple email addresses, you need to add each email address separately and press **Enter** (on your keyboard) after each addition. Cisco DNA Center platform validates the email addresses and notifies you if the syntax is incorrect.

Cisco DNA Center sends the following email notifications for the report:

- Report is in the queue waiting to be processed.
  - Report processing is in progress.
  - Report has successfully been compiled and is completed.
- **Webhook Notification:** Notification is sent as a webhook to the configured webhook URL address (callback URL). Select a webhook from the drop-down list (**Subscription Profile** field).
- Note** If you have not yet created a webhook, you will be prompted to create one. Follow the prompts to the **Webhook** tab in the GUI to configure a webhook. In general, to configure a webhook, click **System > Settings > External Services > Destinations > Webhook** tab.

You will receive status webhook notifications for the report. For example, you will receive "In Queue", "In Progress", and "Success" webhook notifications. You will also be able to view these notifications in the GUI.

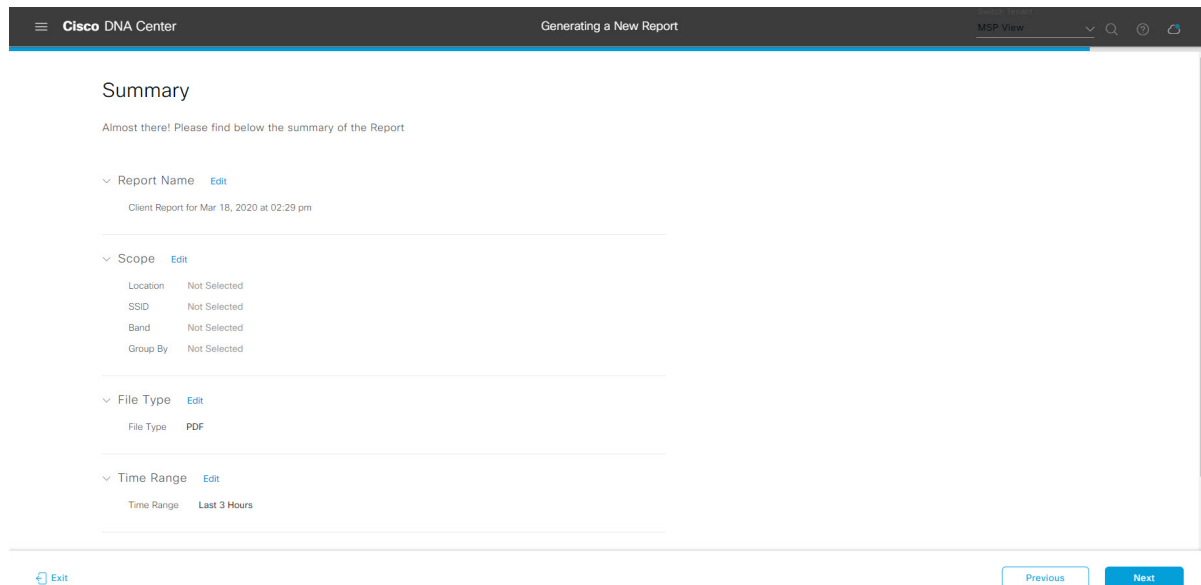
**Figure 99: Delivery and Notification**



Click **Next** to proceed. The **Summary** window opens.

**Step 12** In the **Summary** window, review the configuration and if necessary edit any of the files.

Figure 100: Summary



Click the **Next** button.

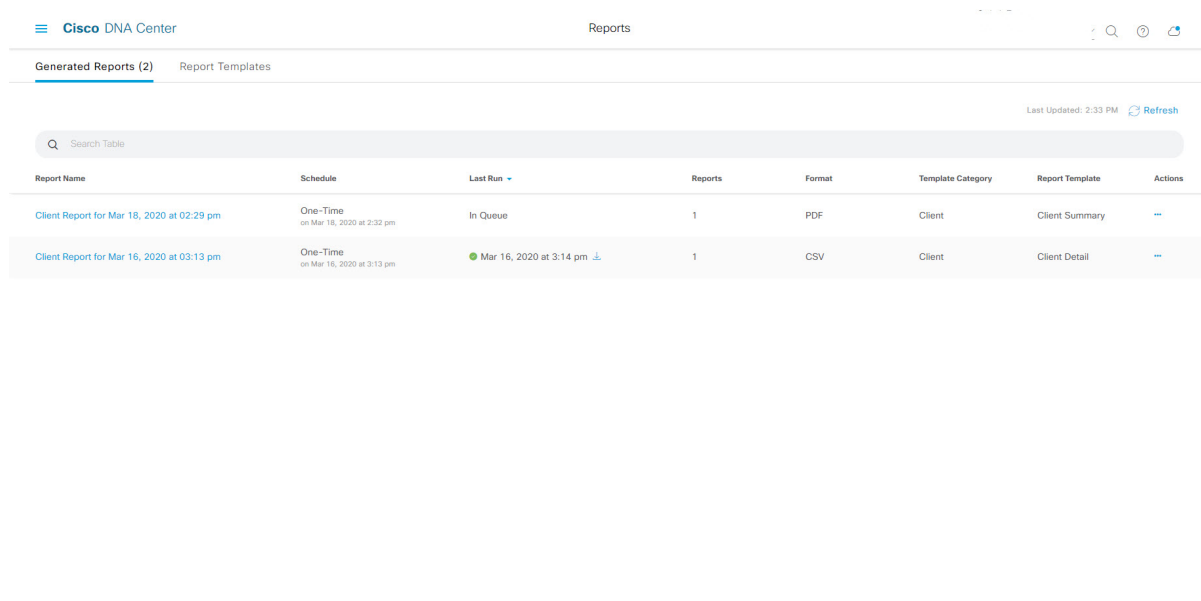
After the report is generated, a success window appears.

**Step 13**

Click the **View the Generated Reports** link.

The **Generated Reports** window opens with instance details of the report that was scheduled.

Figure 101: Generated Reports



### What to do next

Proceed to review your report instance in **Generated Reports** window.



**Note** You can download, review, edit, duplicate, or delete the report in the **Generated Reports** window. For additional information, see [View Generated Reports, on page 83](#).

## View Generated Reports

Perform this procedure to download, review, edit, duplicate, or delete a previously generated report.

**Figure 102: Generated Reports**

Report Name	Schedule	Last Run	Reports	Format	Report Template	Actions
Client Report for Feb 05, 2020 at 01:07 pm	One-Time on Feb 5, 2020 at 1:09 pm	Feb 5, 2020 at 1:09 pm	1	PDF	Client	...
Client Report for Feb 05, 2020 at 06:34 pm	Recurring on MON/TUE/WED/THU/FRI/SAT/SUN at 5:10 am	Feb 5, 2020 at 5:10 am	1	PDF	Client	...
Client Report for Feb 05, 2020 at 11:09 am	One-Time on Feb 5, 2020 at 11:13 am	Feb 5, 2020 at 11:13 am	1	CSV	Client	...

### Before you begin

- Ensure that you have installed Cisco DNA Center 2.2.2. For information about installing the latest Cisco DNA release, see the [Cisco DNA Center Installation Guide](#).
- Run a successful **Discovery** job in Cisco DNA Center. You can check whether a **Discovery** job is successful in **Device Inventory**. From the Menu icon (☰), choose **Provision > Inventory** to view the results.
- Create a report using the **Schedule** functionality in the **Catalog**.

**Step 1** In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports**.

**Step 2** Click the **Generated Reports** tab.

The following information is displayed:

- **Report Name:** Name of the report.
- If you did not give the report a name, a default name is given to the report that contains the report type with the date and time of the report.

**Note** With this release, the report name becomes a link that opens up a view of the report itself within the **Generated Reports** window. Also, there is a **Download** link that is provided to download a copy of the report.

- **Schedule:** One-time generated report or reoccurring report. Also, there is a brief description of the schedule that generated the report.
- **Last Run:** Displays report execution status and details. The following report execution status types may be displayed:
  - **Not Initiated:** Report scheduled but not yet started.
  - **In Queue:** Report scheduled and in the processing queue to be executed.
  - **In Progress:** Report currently being executed.
  - **Completed:** Report execution completed displaying the date and time.  
Clicking on the icon (downward pointing arrow) downloads the last generated report.
  - **Expired:** Report expired and no longer available in Cisco DNA Center.
  - **Error:** Report execution failed.

- **Reports:** Number of reports up to a total of 7.

Hover (mouse) over the displayed report number and **View Report List** appears. Click **View Report List** to display a reports dialog box. The reports dialog box lists all the report executions, their status (**Not Initiated**, **In Queue**, **In Progress**, **Completed**, **Expired**, and **Error**) and a **Download** button to download a copy. Clicking **Error** displays any errors and warnings for the report execution.

**Important** Cisco DNA Center retains a total of 7 reports. Specifically, Cisco DNA Center retains the last 7 reports that are executed, as well as the last 7 reports executed over the last 7 days (week). For example, if you run 8 reports in a single day, Cisco DNA Center will only retain the last 7 reports. If you schedule 1 report for each day, Cisco DNA Center will only keep the most recent 7 reports over the last 7 days (week). You can also export the reports in their various formats from the Cisco DNA Center and archive them to a safe location.

- **Format:** File format type, for example a PDF or CSV file format.
- **Template Category:** Type of report based on the catalog options (Client, Executive Summary, SWIM, or Inventory).
- **Report Template:** Template used when generating the report.
- **Actions:** List of tasks you can perform with the reports.

You can adjust the downloads that are displayed in the GUI by clicking the **Filter** icon and using the filter, or entering a keyword in the **Find** field.

**Step 3** Click **Actions** to perform one or more of the following tasks:

- **View Config:** Opens a window where the configured parameters for the report are displayed (including the schedule). You can review the configured report parameters in this window. You cannot make any changes to the report configuration in this window. This is a read-only view. If you must edit the configuration, click **Edit**. You can both view and edit a report configuration by clicking **Edit**.
  - **Edit:** Opens a window where configured parameters for the report are displayed (including the schedule). You can review the parameters and also edit them in this window. Click **Save** after making any edits to the report.  
**Important** After you edit and update the report configuration, any future report executions reflect this new configuration. This is important if reports are being generated on a reoccurring schedule. Also, if you edit and update a report configuration, all the previous reports in Cisco DNA Center will be deleted. The GUI displays a warning about the deletion when clicking the **Save** button in the window. You do not have to make any edits in the configuration to click the **Save** button and delete all previous reports.
  - **Duplicate:** Opens the **Duplicate** window where you can either view or configure the parameters for the report. Click **Generate Report** to generate the report again.  
**Note** If you want to create a new report based on an existing report and its configuration, use the **Duplicate** option and make changes to the configuration. This permits you to create a new report similar to the existing one, while retaining the existing report and its configuration. If you want to discard the existing report and completely replace it with a new report, use the **View Config** and **Edit** options as described previously.
  - **Run Now:** Starts the process to execute the report. A Success message appears after a successful report execution.  
**Note** If you try to execute a report and there are 7 previous reports, the GUI displays a warning that only the last 7 reports are saved. You use the **Run Now** option when you must generate a report outside of an existing schedule for the reports.
  - **Delete:** Deletes the report. You are prompted to confirm that this action before the report is deleted.
- 

## Run an ROI Report

The Cisco DNA Center platform ROI Insights report is a customized report that shows the productivity improvement of network operations with Cisco DNA Center and comparative ROI insights with a traditional NMS.

The following procedure describes how to configure an ROI report for a network operation.

---

**Step 1** In the Cisco DNA Center GUI, click the **Menu** icon (☰) and choose **Reports > Usage Insights**.

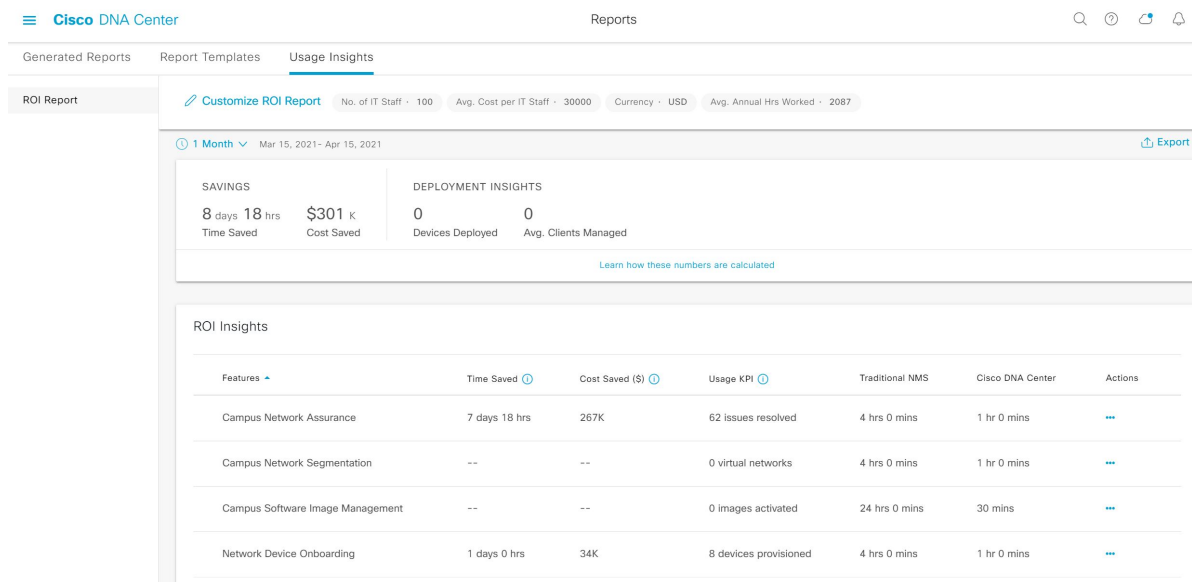
The **Usage Insights** window displays the following information:

- **SAVINGS:** Displays the time and cost saved on network operation with Cisco DNA Center for a selected time range.
- **ROI Insights:** Lists the ROI Insights report that is created based on **Features**, **Time Saved**, **Cost Saved**, **Usage KPI**, **Traditional NMS** time, **Cisco DNA Center** time, and **Actions**.
- **Savings Trends:** Displays the savings trend of **Cost** and **Time** for an ROI Insights report.

**Note** The **Savings Trends** area appears only if the selected time range is more than a month.

- Step 2** In the **Campus Network Assurance**, **Network Device Onboarding**, **Campus Software Image Management**, and **Campus Network Segmentation** areas, enter the time savings in the **Hours** and **Minutes** name fields for a traditional NMS and Cisco DNA Center.
- Traditional NMS: Average time to detect and resolve an issue in the network without Cisco DNA Center.
  - Cisco DNA Center: Average time to detect and resolve an issue in the network with Cisco DNA Center.
- Step 3** To modify the **Cost Inputs** and **IT Inputs**, click **Customize ROI Insights** and make the changes. The **Customize ROI Insights** area displays the preconfigured **Avg. Cost per IT Staff**, **Currency**, **No. of IT Staff**, and **Avg. Annual Hrs Worked**.
- Step 4** To edit the time savings for a feature, click the corresponding **Edit** link under the **Actions** column and update the time in the subsequent pop-up window.
- Step 5** To choose the time range for which you want to see the ROI report, click the time range drop-down list below the **Customize ROI Insights** pane and click a time range radio button.
- Choose from the available time range options: **1 Month**, **3 Months**, **6 Months**, and **1 Year**.
  - To customize the time range of ROI reports, click the time range drop-down list, click **Custom**, and define the **Start Date** and **End Date**.

**Figure 103: Usage Insights Report Dashboard**



- Step 6** Click **Learn how these numbers are calculated** above the **ROI Insights** table in the middle pane to see the calculation details. The **Calculation Details** window shows how to calculate **Time Saved** and **Cost Saved**.
- Step 7** To export the ROI report, click **Export**.

The supported file types for the reports are PDF and CSV.

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