

Set Up Data Export

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Data Export

The Data Export feature in Cisco Spaces helps you to set up the automatic export of raw-level data as CSV files to any available storage destinations.

Cisco Spaces captures a variety of data of users at the location including user acquisition data, user visit data, proximity rule match data, and so on.

Exports are provided as flat files (CSV) that are uploaded directly to the customer's storage destination. Optionally, this can be transferred over a VPN connection if the destination server is not accessible over the public internet. The upload frequency can be customized to suit customer requirements and the volume of data. This supports fully automated ingestion into customer systems.

For more information about routing the SFTP connection over VPN and additional details, contact Cisco Spaces support.

Note

- Customer acquisition data export does not support data for portals with the authentication types: **No Authentication** and **Access Code**.
- As part of the visits data export, visits with a duration of less than zero minutes (less than 0 min) are excluded. This removes invalid or transient visit records that could inflate visitor counts.

  Visits with a duration of more than 720 minutes are also excluded. This removes long-running, always-on device sessions that would otherwise inflate visitor counts.
- For the Cisco Spaces dashboard EXTEND license customer accounts, data export types such as Captive portal, and Engagement and Location Personas are not available for export.
- For ADVANTAGE license customer accounts, all data types are available for export.
- For ESSENTIAL (formerly known as SEE) license accounts, **Data Export** feature is restricted in the enhanced React version of Cisco Spaces.

Spaces Data Export Source IP

Data Export uses the following source IPs (based on region) to export data:

Region	Source IP(s)
.io	52.55.122.128 54.174.253.222 34.205.82.138 3.208.52.128 52.206.67.43 34.192.26.106 54.88.200.142
.eu	52.48.33.123 52.208.167.15 52.208.15.59 54.220.148.167 54.220.45.63
.sg	18.140.83.198 13.215.167.226 18.143.125.54 3.1.251.174

Create Export Data

Procedure

Step 1 In Cisco Spaces, click the **Menu** icon ( ) and choose **Setup** > **Data Export**.

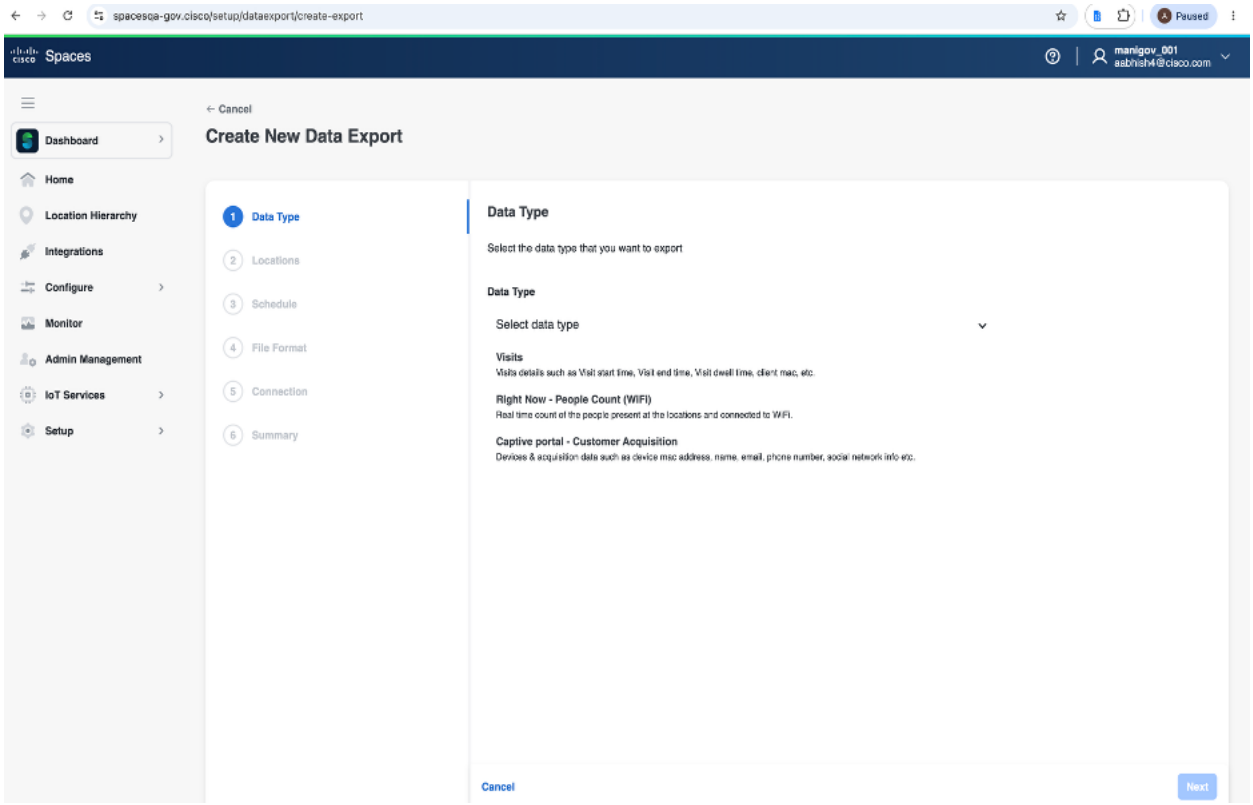
Step 2 Click **Create New Export**.

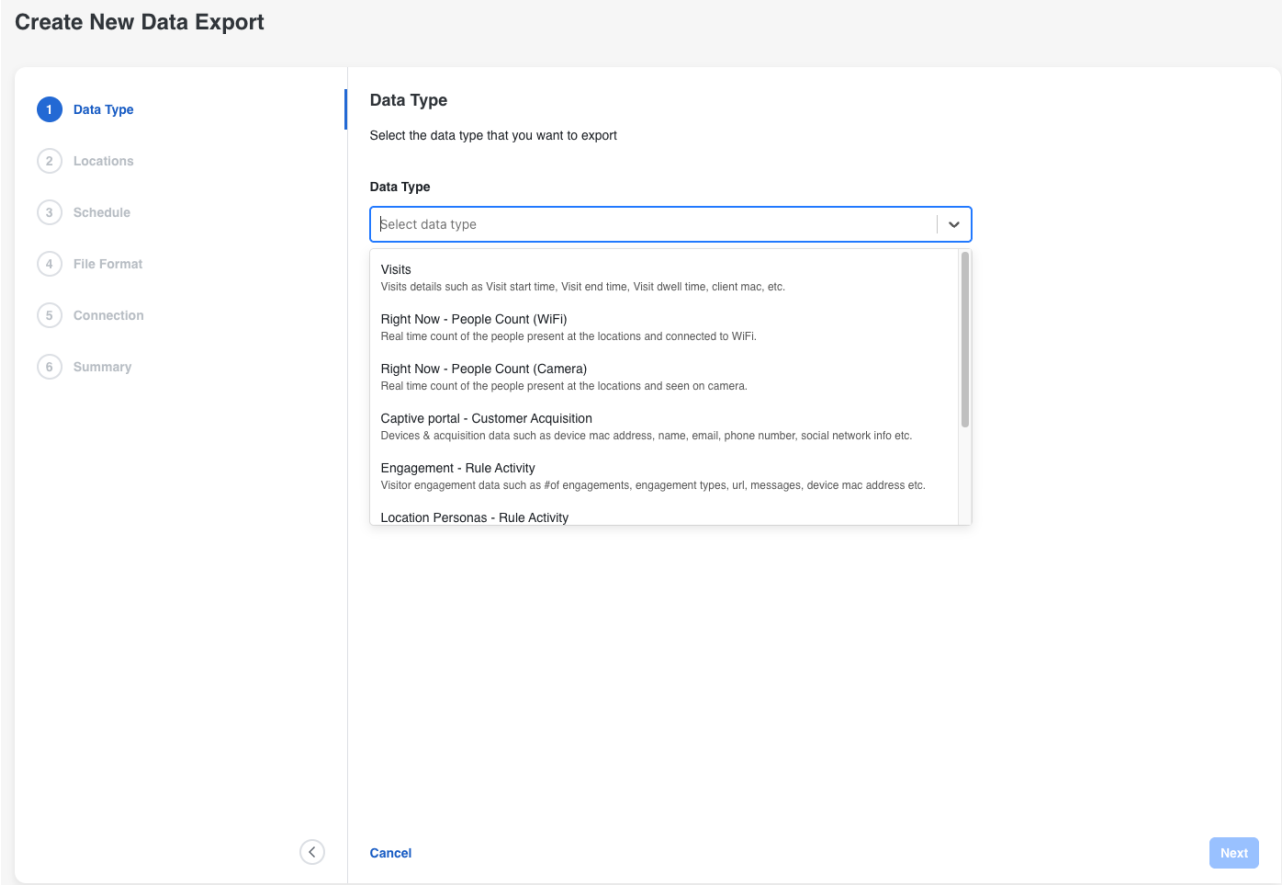
The **Create New Data Export** window is displayed with the following configuration options in the chronological order:

- **Data Type**
- **Locations**
- **Schedule**

- **File Format**
- **Connection**
- **Summary**

Figure 1: Create New Data Export





Step 3 From the **Data Type** drop-down list, select the data type.

The following data types are available:

Table 1: Data Types

Data Types	Description
Visits	Log Timestamp, Timezone, Local Date, Local Hour, Local Minute, Device ID, User ID, User Name, MAC Address, Visit Start Timestamp,Visit End Timestamp,Visit Duration, Location Information
Right Now - People Count (Wi-Fi)	Log Timestamp, Local Date, Local Hour, Local Minute, Associated Users Count, Estimated Probing Count, Estimated Density, Location Information
Right Now - People Count (Camera)	Log Timestamp, Local Date, Local Hour, Local Minute, People Presence Count, Location Information

Data Types	Description
Captive Portal - Customer Acquisition	Log Timestamp, Timezone, Local Date, Local Hour, Local Minute, Acquisition Type, Device ID, User ID, MAC Address, Acquisition Handle, Opt In, Phone Number, Email, First Name, Last Name, Gender,Age, Business Tag Name, Business Tag Value, Social Network, Social Network Profile URL, Social Network Picture, CPF Number, Location Information
Location Personas - Rule Activity	Log Timestamp, Timezone, Local Date, Local Hour, Local Minute, Device ID, User ID, MAC Address, Profile Tag Name, Rule Name, Location Information
Engagement - Rule Activity	Log Timestamp, Timezone, Local Date, Local Hour, Local Minute, Device ID, User ID, MAC Address, Engagement Type, Engagement Destination, Message, Rule Name, Location Information
Open Roaming - User Data	Log Timestamp, Timezone, Local Date, Local Hour, MAC Address, User Name,Status Type, Account Session ID, Acct Input Octets, Acct Input Packets, Acct Output Octets, Acct Output Packets, Profile Name, Device Class Tag, CUI User Name, App Reference ID, Location Information

Note When you create or edit a Visits export, use the **Include PII** toggle to control whether the export contains the **User Name** and **MAC Address** fields.

The toggle is enabled by default. When enabled, the generated Visits export includes User Name and MAC Address. When disabled, Cisco Spaces omits both fields from the generated file. Other selected Visits fields are not affected.

- For each data type, you must select the levels in **Location Hierarchy** and location information to include in the export.
- The location selection is based on the location type selected in the **Data Type** field.
- The location selection option is not available for the data types **Engagement**, **Captive Portal** and **Location Personas**.
- Cisco Spaces captures various user data at location including user acquisition data, user visit data, engagement rule match data, and so on.
- For custom data export, contact, Cisco Spaces support.

a) In the **Location Information** area, the following fields are displayed depending on the selected configuration. All these fields are optional and you can choose to select them to include in the data export.

- Location Name
- Location Type

- Hierarchy Path
- City
- State
- Country
- Capacity
- Area

The recent hour data for the selected data type is displayed in the sample export.

b) Use the **INCLUDE PII** toggle to choose whether Personally Identifiable Information (PII), such as MAC Address and username, is included in the export.



Note This option is available only if you select **Data Type** as **Visits** Export in the Create or Edit Export workflow. By default, the toggle is enabled, so the exported file includes the username and MAC Address fields. You can disable the toggle to exclude these fields from the export.

Cisco Spaces uses standardized values in the Location Type field of export files. Use the these values when processing exported location data:

Table 2:

Previous value	Current value	Description
cmxzone or merakizone	zone	Unified value for all zone types
meraki	org	Organization associated with a Cisco Meraki network
MSE	cmx	Location associated with Cisco CMX

Update downstream parsers, mapping, and validation rules to accept zone, org, and cmx.

c) Click **Next** to navigate to **Locations**.

Step 4 Check the **Enable this export for all locations** check box to select all available locations and click **Next** to navigate to **Schedule**.

If you want to select the locations to be exported individually, uncheck the **Enable this export for all locations** check box and select the locations.

Step 5 In the **Export Schedule** area, from the **Recurrence** drop-down list, select the export recurrence to schedule a data export. The export is scheduled based on the configured timezone.

The options are:

- **Hourly**: Select this option to schedule data export every hour. From the **Timezone** drop-down list, select the required timezone.
- **Daily**: Select this option to schedule data export on a daily basis. From the **Timezone** drop-down list, select the required timezone and also select the hour of the day when the data is to be exported.

- **Weekly**: Select this option to schedule data export on a weekly basis. Select the day and from the **Timezone** drop-down list, select the required timezone and also select the hour of the day when the data is to be exported.

Step 6 Click **Next** to navigate to **File Format**.

Step 7 In the **Delimiter** area, select the data separator symbol code preference.

The options are:

- **Pipe**
- **Comma**
- **Tab**
- **Custom character**: In the **Custom Character** field, enter the character of your preference. You can use any special character except /,\, &, ','.

Note For the options **Pipe**, **Comma**, and **Tab** you must provide additional inputs.

Step 8 In the **Compress export data**, select **Yes** or **No** if you need a compressed export.

Note We recommend that you select the compressed format for data export.

Step 9 In the **File Name Format** field, enter the filename prefix and select the format for date and time.

Step 10 From the **Select Date & Time Format** drop-down list, select the format.

Step 11 Click **Next** to navigate to **Connection**.

Step 12 In the **Connection Type** area, from the **Select Destination** drop-down, select the destination type.

Depending on the connection type selected, enter the configuration parameters. The available connection types are:

- SFTP
- Amazon S3
- Microsoft Azure Blob Storage
- Google Cloud Storage
- Box

a) Enter the following parameters if the connection type is **SFTP** server:

- **SFTP Host**: Enter the hostname or IP address of the server in the following format `hostname.server.com`.
- **Port**: Enter the port number you want to connect to the **SFTP** server.
- **Username**: Enter the username.
- **Use Password**: Choose this radio button and enter your password to connect to the **SFTP** server.

- **Use Private Key**: Choose this radio button to use the private key to connect to the **SFTP** server. You must use the **Upload Private Key** option to upload the private key and enter the passphrase.

Note

- You can either choose **Use Password** or **Use Private Key** based on the SFTP configuration to establish the connection.
- Password or passphrase selection is based on the SFTP server.
- We recommend that you use RSA private key because OpenSSH key based authentication is not supported.

- **Upload Path**: Enter the upload path for the export data.

b) Enter the following parameters if the connection type is **Amazon S3**:

- **Access Key**: Enter the access key for your Amazon S3 bucket.
- **Secret Key**: Enter the secret key for your Amazon S3 bucket.
- **Region**: From the **Region** drop-down list, select the region for your Amazon S3 bucket.
- **Bucket Name**: Enter the bucket name depending upon the selected region.
- **Upload Path**: Enter the upload path for the export data.

c) Enter the following parameters if the connection type is **Microsoft Azure Blob Storage**:

- **Account Name**: Enter the storage account name for the Microsoft Azure Blob Storage.
- **Account Key**: Enter the account key for your Microsoft Azure Blob Storage.
- **Container Name**: Enter the container name.
- **Upload Path**: Enter the upload path for the export data.

d) Enter the following parameters if the connection type is **Google Cloud Storage**:

- **Bucket Name**: Enter the bucket name.
- **Upload Path**: Enter the upload path for the export data.

Note You must add a data-out@dna-spaces.iam.gserviceaccount.com service account and provide role as **Storage Object Admin** in the Identity and Access Management (IAM) Service.

e) For the connection type **Box**, in the **Upload Path** field, enter the folder name created in **Box** for exporting the data and click **Authenticate**.

1. Ensure that a box account is available to authenticate Data Export.
2. Enter the same username and password credentials to authenticate to the box. Single sign-on (SSO) method for authentication is not supported.

Note After a successful authentication, provide full access to Cisco Spaces to access files in the box location. Click **Grant access to box** to grant full permission to Cisco Spaces to export the data.

Custom data export is currently not supported for box destinations.

Step 13 Click **Connect**.

If the connection is successful, the following message is displayed: `Connection Established`.

Step 14 Click **Next** to navigate to **Summary**.

Step 15 In the **Add a name to your data export** field, enter the name for the data export.

Step 16 Review the data export details and click **Export**.

A sample file is available in the upload path of the connection type once the export is configured.

In the **Create New Export** window, the data export details such as name, connection type, schedule, next export detail and the last successful export information are displayed.