ThreatQuotient



ThreatQ Data Exchange (TQX) Guide

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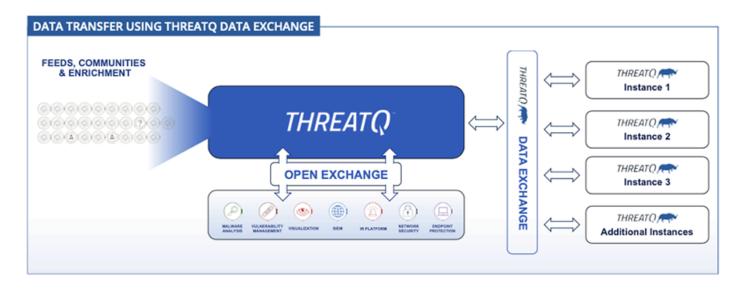
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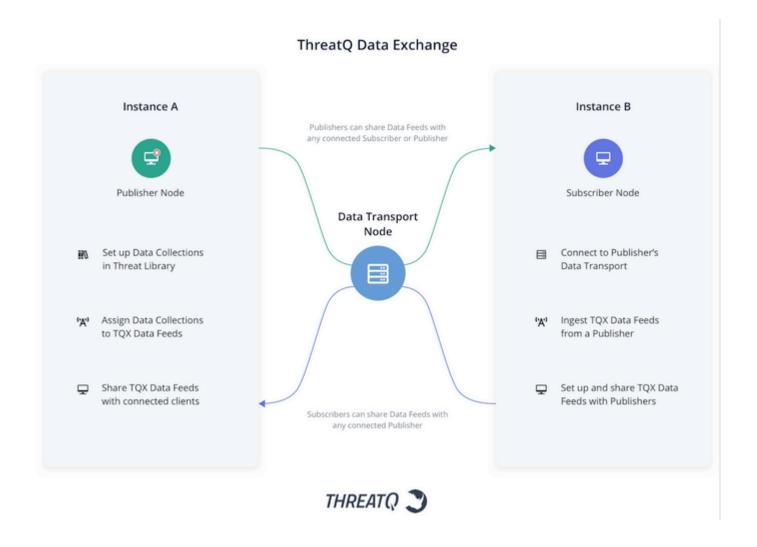
Overview

The ThreatQ Data Exchange (TQX) allows the bi-directional sharing of threat intelligence across multiple ThreatQ instances. This allows your organization to build a centralized threat repository, referred to as a Publisher, that can transmit specific intel to various departments within your organization, known as Subscribers. Those Subscribers can analyze the data they ingest and provide feedback to the Publisher via a new Data Feed.





How it Works



Instance Types

There are two different types of TQX instances available: Subscriber and Publisher.

Upgrading an instance to a Publisher license allows you to create data connection bundles, which are used to create connections with Subscribers. Once connected to a Subscriber, you can send and receive system objects in the form of Data Feeds. See the Publisher topic for further information.



You will need at least one Publisher instance in order to utilize TQX.

Upon upgrading to ThreatQ version 4.49+, your ThreatQ instance will have Subscriber permissions by default. As a Subscriber, you can connect to the data transport using the



connection bundle sent to you by Publisher in order to send an receive system objects in the form of Data Feeds. See the Subscriber topic for further information.

Connection Bundles

Publishers can create connection bundles that allow Subscribers to connect via a data transport. This connection is a bi-directional connection between the Publisher and Subscriber and allows the sharing data collections in the form of Data Feeds.

Publishers and Subscribers will use a multi-step wizard to create their first connections. Additional connections are managed through your Topology View.

See the Getting Started - First Connections, Publisher, and Subscriber topics for further information.

Data Feeds

Users are able to create and edit Data Feeds that they wish to obtain specific data from in order to send information to others through the ThreatQ Data Exchange.

A Publisher can use a saved Data Collection from the ThreatQ Threat Library to create a Data Feed. That Data Feed can be assigned to one or more recipients, which can be a Subscriber or Publisher, at a user-set frequency.



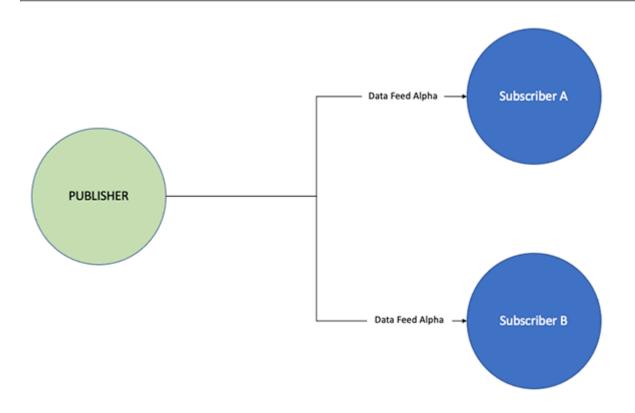
A Publisher can send and receive Data Feeds to/from a Subscriber. A Subscriber can send and receive Data Feeds to/from a Publisher. A Subscriber cannot send Data Feeds to another Subscriber. Subscribers will **not** be able to see another Subscriber in their Topology View.

See the Data Feeds topic for further details.

Example - One Publisher, Two Subscribers

A Publisher creates a Data Feed, named Alpha, and assigns it to two connected Subscribers with a publish frequency set to hourly. Both Subscribers will receive Data Feed Alpha's information every hour.

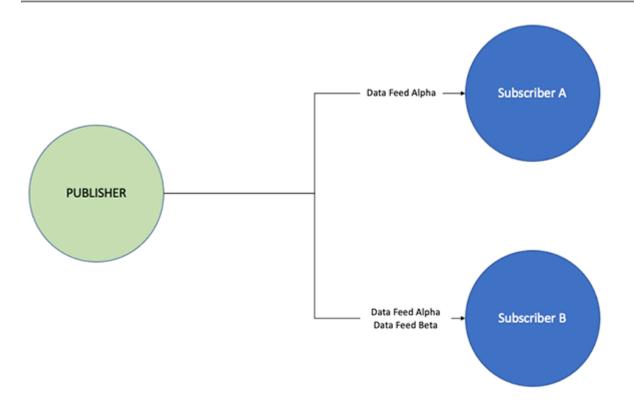




Example - One Publisher, Two Subscribers with Different Data Feeds

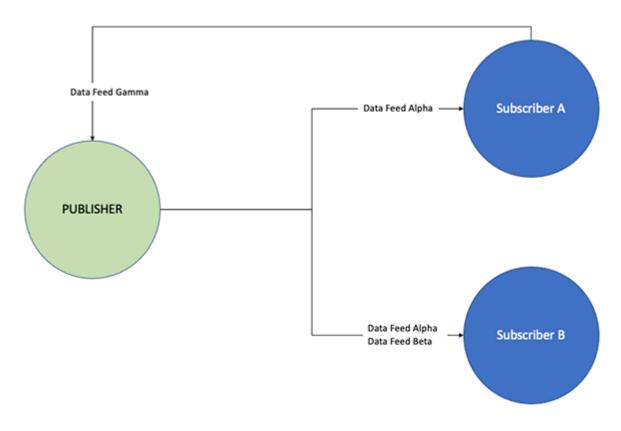
In this example, the Publisher is publishing to two Subscribers. The Publisher selects one feed to be sent to Subscriber A and two feeds to be sent to Subscriber B. In this scenario, Subscriber A and B will received Data Feed Alpha. Additionally, Subscriber B will also receive a second Data Feed, Beta, from the Publisher.





Example - One Publisher, Two Subscribers with a Subscriber sending a Feed to the Publisher

In this example, in addition to receiving a Data Feed from a Publisher, Subscriber A is also publishing its own Data Feed back to the Publisher.



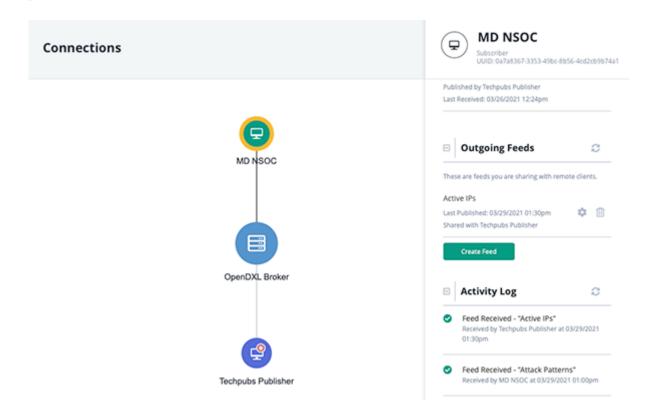


Managing Connections

Publishers and Subscribers can view connections, instance details, and activity logs via a node-based interface referred to as the Topology View.



Publishers will be able to see all Subscribers that they are connected to in the Topology View. Subscribers will only see their instance node and the Publisher(s) they are connected to in the view. Subscribers cannot see or submit/receive data other Subscribers.



The view and available actions will differ based on your instance type (Publisher, Subscriber). See the Publisher and Subscriber topics for more details.

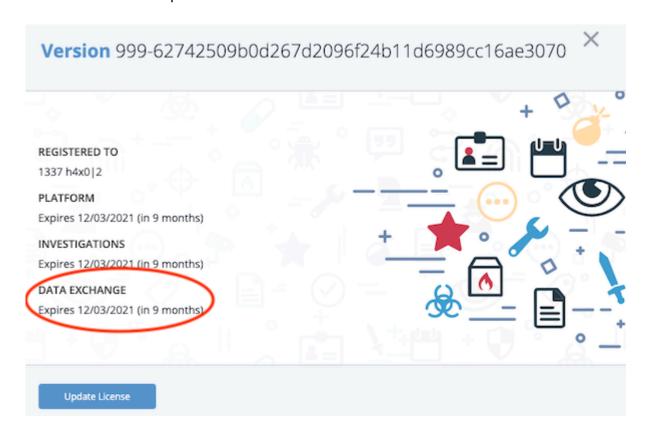


Requirements

The following is a list of the minimum requirements for the ThreatQ Data Exchange:

- Two ThreatQ instances running ThreatQ version 4.49+
 - One instance is required to have a Publisher license

Publisher instances will see the Data Exchange license information in their about window. This can be accessed by clicking on the settings agear icon and selecting About from the dropdown.



• One instance with the standard ThreatQ platform license



All ThreatQ instances on version 4.49+ will have Subscriber permissions. Subscribers will not see the Data Exchange license on their About window.

- · One Data Collection saved.
- Network access for both instances.



Components

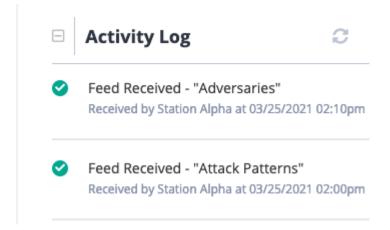
The following table contains key components, terms, and definitions regarding the ThreatQ Data Exchange service.

COMPONENT/ TERM

DEFINITION

Activity Log

The Activity Log, located on the bottom-right of the Topology View, provides an audit trail for TQX activity such as when a new node has been added to your connection and when you submitted or received information from a Data Feed.



Client

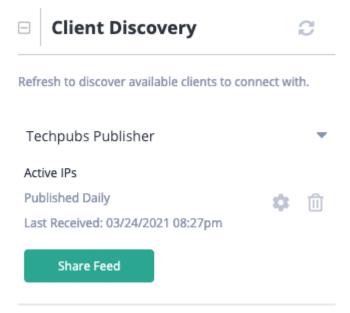
The term Client is used to refer to other platform instances when creating a Connection Bundle.

Client Discovery Pane

The Client Discovery pane is accessible by clicking on the transport node in your Topology View. Users can view the instances they are connected with and which data feeds the are submitting to those instances.

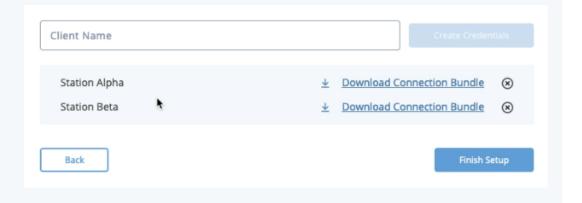


DEFINITION



Connection Bundle

The connection bundle is a zip file containing connection information for the Data Transport. A connection bundle is created by a Publisher when creating a new connection, such as adding a new Subscriber. The connection bundle zip must be uploaded by the Subscriber when connecting to a Publisher.

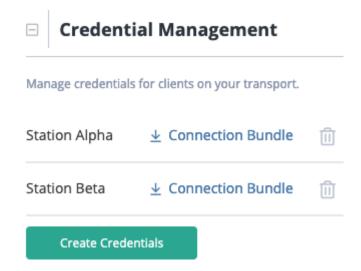


Credential Management

The Credential Management pane is accessible after clicking on the transport node in the Topology View and is only accessible by Publishers. Publishers can use this pane to create new connection bundles, download existing connection bundles, and delete connection bundles.

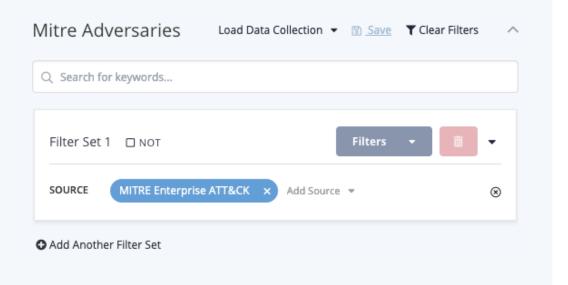


DEFINITION



Data Collection

A data collection is a saved ThreatQ Threat Library query that can be used to create a Data Feed.



Data Feeds

Data Feeds transmit selected Data Collections to user-selected instances (Publishers, Subscribers). You can select which data collection to use, whether or not to include associated attributes, and also rename the source for the feed so that the receiver can easily identify system objects ingested from the data feed.



DEFINITION

Create Feed

Basic Info		
Feed Name		
Publish Frequency		
Transport —		
OpenDXL Broker Pub	S	
Dataset		
Select a data collection b	elow that will define the d	ata being exported in this feed.
Select a data collection	on	
Create a new data collection.		
Output Criteria You can use the section in the part of the outpure.		supporting context should or sh
Supporting Context Select options below to choo	se what supporting context sh	ould be included.
☐ Assigned To	☐ Attributes	☐ Contact Information
Description	□ Due At	☐ Event Date
File Information	☐ First Seen	☐ Last Seen
Objective	☐ Priority	☐ Published At
Reporter	☐ Source Code	☐ Spearphish Details
Tags	□ Туре	
Relational Data		
	ude related objects and their c	ontext.
] Adversaries		

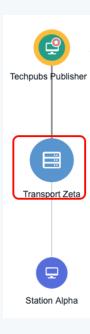
Save



DEFINITION

Data Transport

The transport method configured for sharing data between TQX nodes using OpenDXL. Currently, you can only use the TQX default transport included with a Publisher license. Additional transport options, including the ability to use your own, will be introduce in future releases.

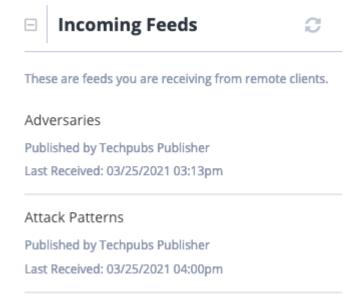


Incoming Feeds Pane

The Incoming Feeds pane is accessible from the right menu pane after clicking a Subscriber or Publisher node in your Topology View. You can see the name of the feed you are subscribed, the instance that sent it, the publish rate, and the last received time stamp.



DEFINITION

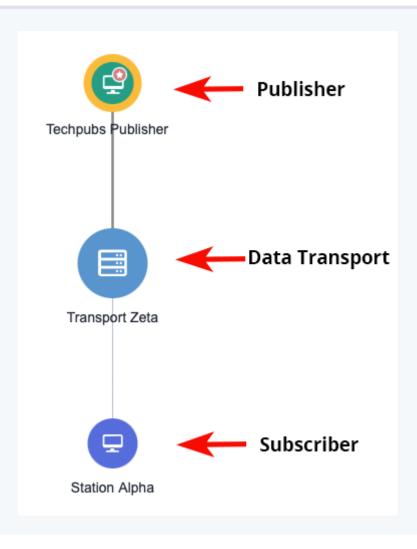


Nodes

A node is a basic unit of a data structure within TQX, such as an instance (Publisher/Subscriber) or data transport, that can be viewed on the Topology view. You can click on a node to view specific information.



DEFINITION



Outgoing Feeds Pane

The Outgoing Feeds pane is accessible from the right menu pane after clicking a Subscriber or Publisher node in your Topology View. You can see the name of the feed you are subscribed, the instance that will receive it, the publish rate, and the last published time stamp. You also have an option to create a new feed from this pane.



DEFINITION



Publisher

A ThreatQ instance with a TQX broker license, which allows a user to create a connection bundle. At least one Publisher instance is required in order to create a connection. In TQX, Publisher nodes will have a star badge icon in the Topology View.

Subscriber

A ThreatQ instance that does not have a TQ broker license. Any ThreatQ instance with version 4.49+ without a Publisher license will be a Subscriber. A Subscriber can receive Data Collections from a Publisher and also assign Data Collections to the Publisher for transfer. However, a Subscriber cannot see nor assign Data Collections to other Subscribers connected to the Publisher.

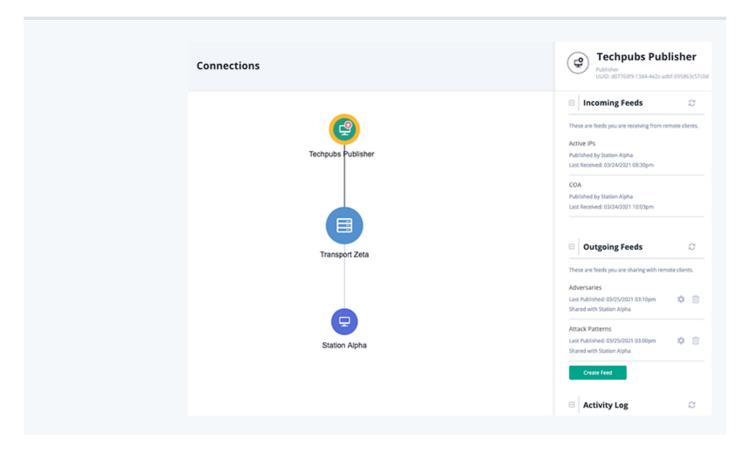
Topology View

The Topology View provides you with a visual representation of your TQX connections. You can access the view by clicking on the Data Exchange menu and selecting **Connections**.

From this view, you can click on various nodes to view specific information. Publishers can create/assign data feeds and create new connection bundles from this view as well.



DEFINITION





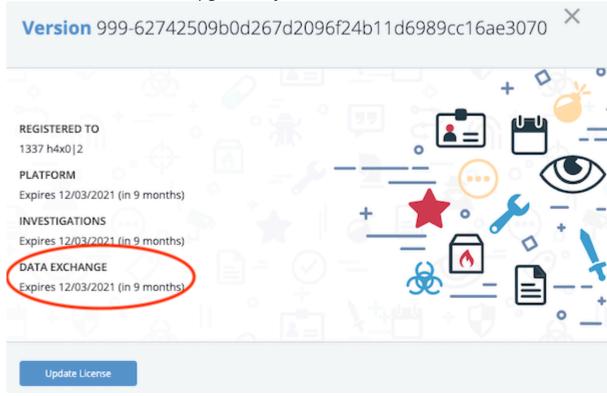
Getting Started

The information found in this topic will provide the initial steps to create a connection bundle, set up a subscriber, and to create your first Data Feed.

Confirm Requirements

Confirm that you have the following:

- · Two separate ThreatQ instances
 - One Publisher Instance (upgraded by license)



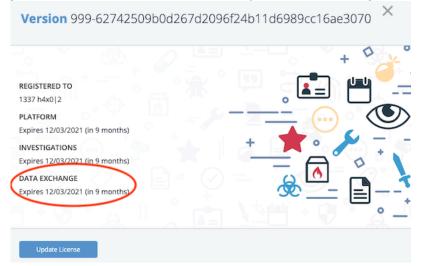
- One Subscriber Instance (included with standard ThreatQ License version 4.49+)
- Network connection between the two instances
- At least one saved Data Collection (Publisher instance)

Publisher - Creating Connection Bundle

1. Click on the settings icon and select About.



2. Confirm that you the **Data Exchange** license information is displayed. This confirms that your instance has the Publisher permissions via your license.



3. Click on the **Data Exchange** icon and select **Connections** in the top navigation bar.

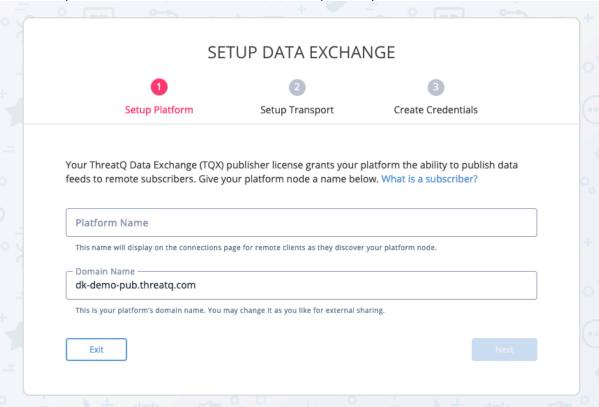
The Data Exchange splash page will load.



4. Click on Setup Data Exchange.



The Setup Wizard will load with the first step, Setup Platform, selected.



5. Enter a **Platform Name** for your instance. This is the name that you will use to identify yourself on the connections page. Subscribers will also see this name when viewing their Topology view.

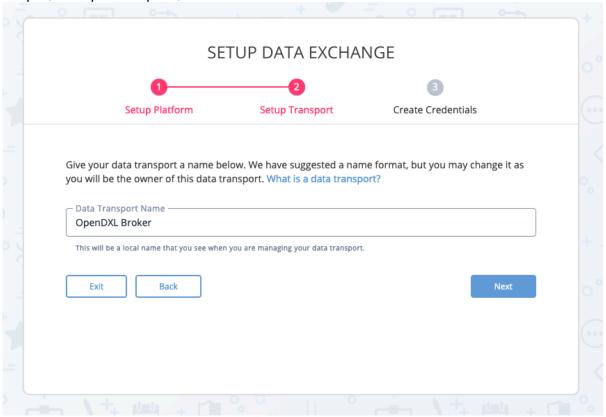


You can change this name later but it will only affect your view. Subscribers will still see the name you entered for this step.

- 6. The **Domain Name** field is automatically populated based on your ThreatQ instance. Leave this field as is.
- 7. Click on Next.



Step 2, Setup Transport, will load.



8. Update the **Data Transport Name** if desired, otherwise use the default entry. This name will be used to identify the Broker node in your Topology view.

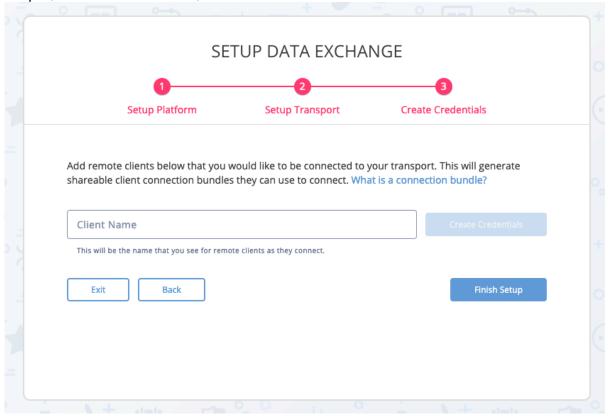


Subscribers are given the option to name the Data Transport during their connection setup. The name you enter in this field will not affect what Subscribers see.

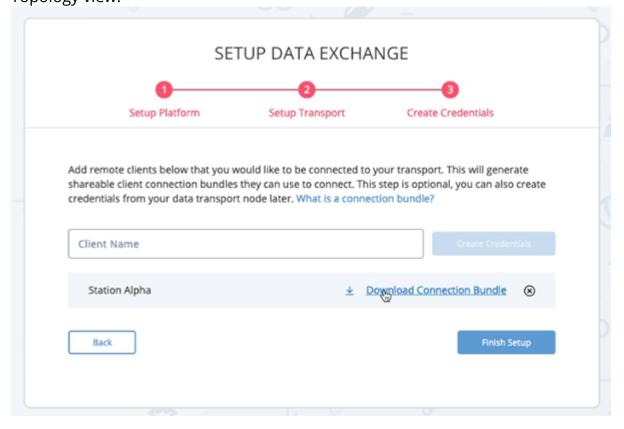
9. Click on Save and Continue.



Step 3, Create Credentials, will load.



10. Enter a **Client Name** and click on **Create Credentials** for each Subscriber you will connect to using ThreatQ Data Exchange. The names you enter here will only affect your Topology view.







Publisher names a Subscriber: Station Alpha. Subscriber names their platform: East Wing NSOC

The Publisher will see the Subscriber node as: Station Alpha The Subscriber will see his/her platform as: East Wing NSOC

- 11. Repeat step 10 to create credentials for additional subscribers.
- 12. Click on the download icon to download the Connection Bundle for each client.

Subscribers will need the Connection Bundle file during their setup.

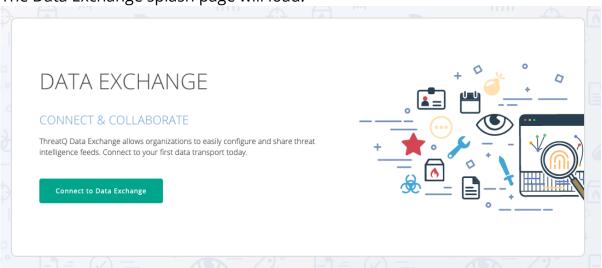
- 13. Click on Finish Setup.
- 14. Send the Connect Bundle(s) you downloaded in step 12 to the Subscriber(s).

The Subscriber will now need to perform their setup to continue the setup process. If you have not done so already, send the connection bundles to the Subscribers.

Subscriber - Connecting to a Publisher

1. Click on the **Data Exchange** icon in the top navigation bar of ThreatQ and select Connections.

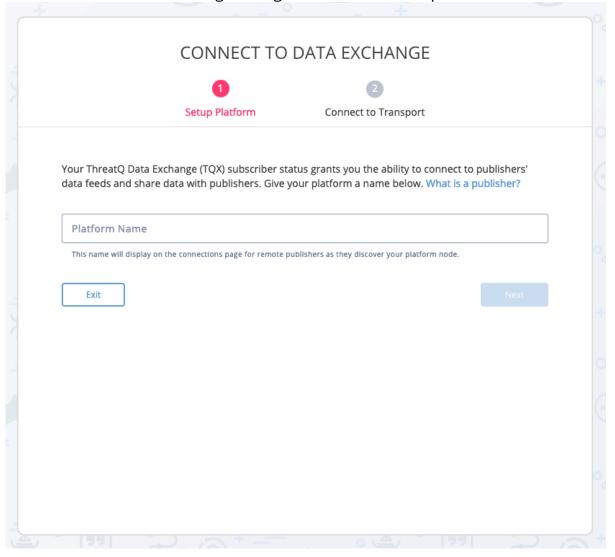
The Data Exchange splash page will load.



2. Click on Connect to Data Exchange.



The Connect to Data Exchange dialog box will load on Step 1.



3. Enter a name for the your platform instance. You will use this name to identify your instance in your Topology view.

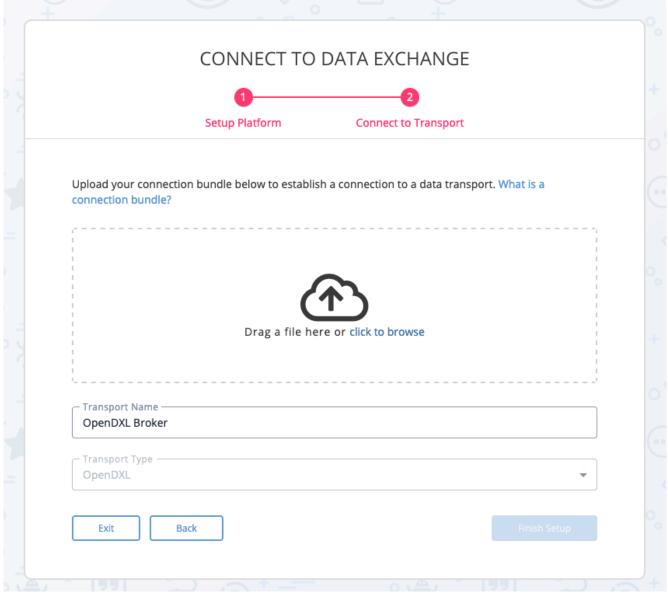


You can change this name later but it will only affect your view. Publishers may have a different a different name for your instance but will only see it in their Topology view.

4. Click on Next.



Step 2, Connect to Transport, will load



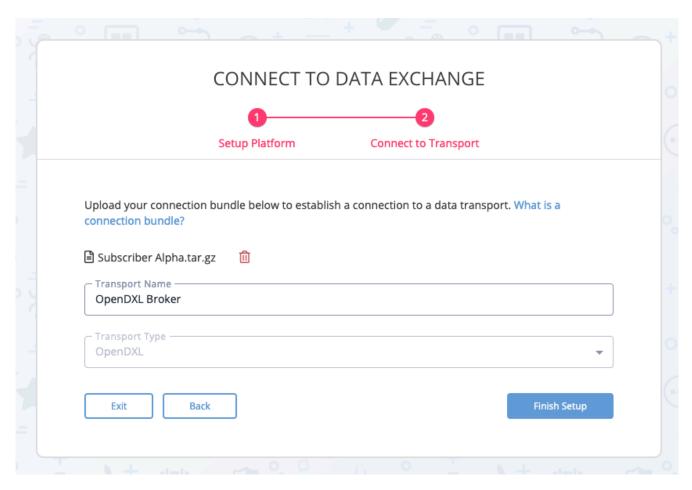
5. Upload the Connection Bundle file by either:

- Dragging and dropping the file into window
- Clicking on the Click to Browse link to locate file saved on your local drive.



The Connection Bundle file is obtained from the user that set up the Publisher ThreatQ instance.

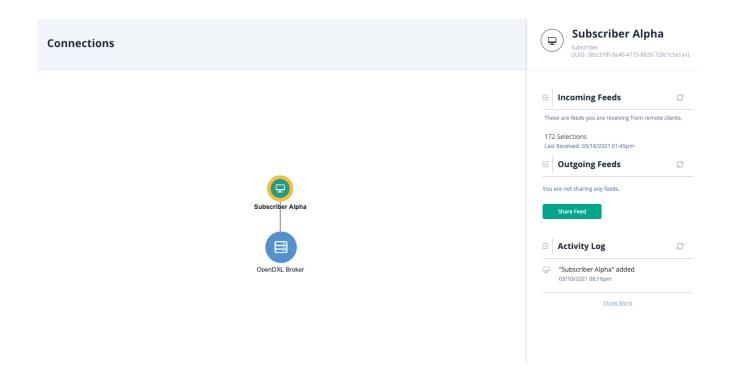




- 6. Update the **Data Transport Name** if desired, otherwise use the default entry. This name will be used to identify the transport node in your Topology view.
- 7. Leave the **Transport Type** dropdown field as is.
 - The system default transport is the only transport available. The option for additional transports will added in future releases of the ThreatQ platform.
- 8. Click on the **Finish Setup** button.

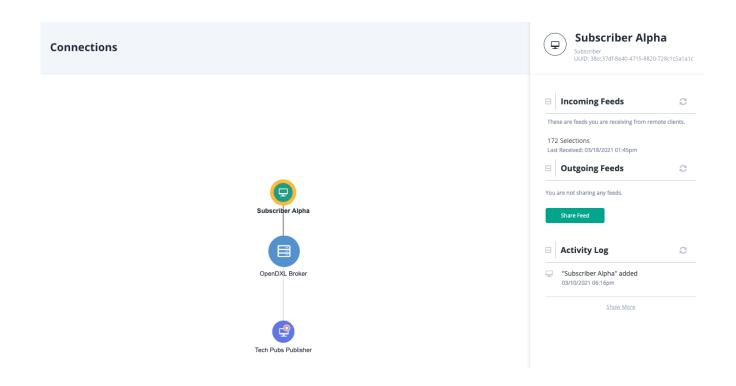
The Connections page will load. You will see your platform, identified as a green node, and the transport, identified as a blue node. Pause until the Subscriber and Publisher instances discover each other.





A

It can take up to 30 seconds for this discovery process to complete then refresh the page. After the instances have discovered each other, the Connection pages will show the connections. The publisher will now see the subscriber node and the subscriber will now see the publisher node.





Publisher - Creating a Data Feed

1. Click on the **Data Exchange** icon in the top navigation bar of ThreatQ and select **Data Feeds**.

The Data Feeds page will load.



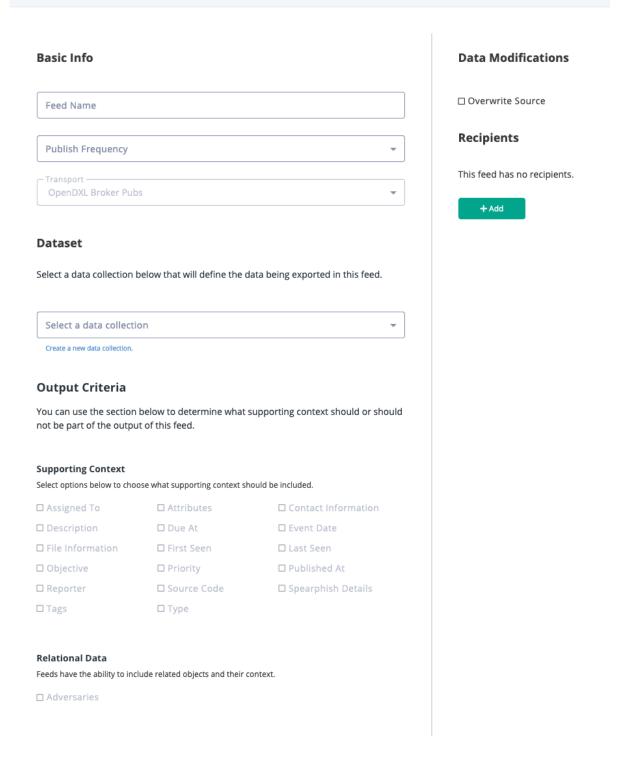
2. Click on Create Feed.



The Create Feed form will load.



Create Feed



Save



Basic Info

- 3. Enter a name in the **Feed Name** field.
- 4. Select the **Publish Frequency** for how often data feed updates will be pushed.

Options include:

- Daily
- Hourly
- 5. The **Transport** dropdown will be greyed out. At this time, you can only use the default transport provided by TQX. Additional transport options will be made available in future ThreatQ platform releases.

Data Set

6. Select the **Threat Library Data Collection** to be exported with feed.



You can also click on the **Create a New Data Collection** option. This will open the Threat Library in a new tab in order to create a Data Collection.

Output Criteria

7. Select the supporting context that should be included in the feed using the checkboxes supplied.



Only fields used in the data exported will be selectable. Fields not associated with the data collection selected will be greyed out.

8. Select if you want to include related data in the transfer.



At this time, only related Adversaries are available for this option. If electing to include related adversaries, related attributes of the related adversary will not be included.

Data Modifications

9. Check the **Overwrite Source** checkbox, under Data Modifications, if you wish to change the source name, and enter the new source name. This step is optional.



A subscriber will see the data feed source name under object sources in their object details page. Using the Overwrite Source option will allow you to change this source name.



10. Click on + Add button under the Recipients section.

The Add Recipients dialog box will open. You will see a list of all connection bundles that you have created. The Subscribers do not have to be connected yet to be assigned to a Data Feed. The Subscriber will not received the Data Feed connection profile or system objects until they have connected to the transport.

- 11. Select the Subscriber as the recipient and click on **Add Recipient**.
- 12. Click on Save.

The Publisher instance will push the initial Data Feed details to the subscriber recipients that can be viewed in the Activity Log and Incoming Feeds information panes.



If you assigned a Data Feed to a Subscriber before he/she could establish a connection, the Data Feed will send its first official push of system objects to the Subscribers based on the Publish Frequency set in the Basic Info section of the Data Feed if it there has been a change to the Data Feed objects (new objects added to the Data Collection).



Data Feeds

Data Feeds are used to transmit threat intel data from one instance to another. You will select a Data Collection to configure the information to share with other instances, determine the support context included with the intel, and select the instances to share this data with. You also have the ability to override the source of the Data Feed.



It is recommended that you allow your subscribers to connect to your instance before assigning a Data Feed. This will allow your instance to push out the Data Feed immediately. If you assign a Data Feed to an instance that has yet to connect, the Data Feed will be pushed at the next frequency if there are new objects in the Data Feed.

Creating a Data Feed

1. Click on the **Data Exchange** icon in the top navigation bar of ThreatQ and select **Data**Feeds.



You can also click on the **Create Feed** button under the Outgoing Feeds pane in your Topology View after selecting your instance node. This will automatically load the Create Feed form in step 2.

The Data Feeds page will load.

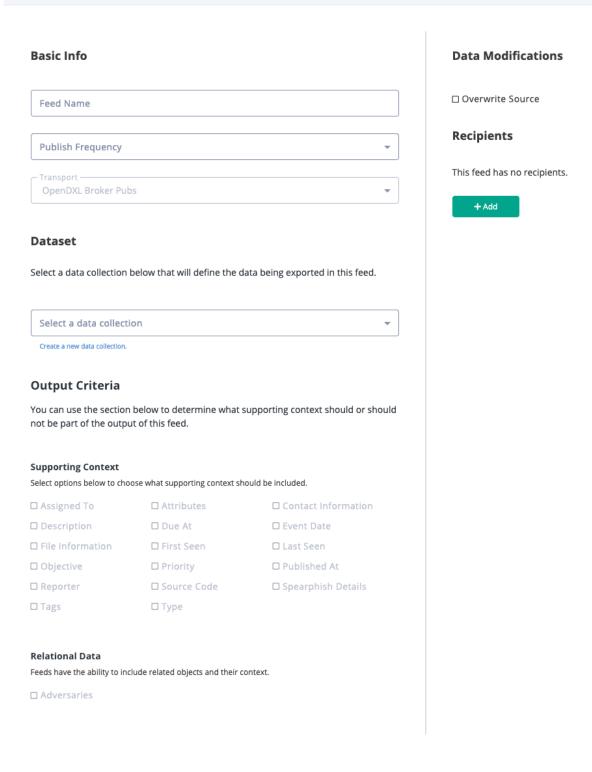


2. Click on Create Feed.

The Create Feed form will load.



Create Feed

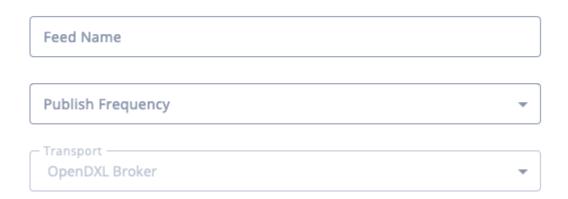


Save



Basic Info

Basic Info



- 3. Enter a name in the **Feed Name** field.
- 4. Select the **Publish Frequency** for how often data feed updates will be pushed.

Options include:

- Daily
- Hourly
- 5. The **Transport** dropdown will be greyed at. At this time, you can only use the default transport provided by TQX. Additional transport options will be made available in future ThreatQ platform releases.

Data Set

Dataset

Select a data collection below that will define the data being exported in this feed.



6. Select the Threat Library Data Collection to be exported with feed.





You can also click on the **Create a New Data Collection** option. This will open the Threat Library in a new tab in order to create a Data Collection.

Output Criteria

Output Criteria

You can use the section below to determine what supporting context should or should not be part of the output of this feed.

Supporting Context		
Select options below to choose what supporting context should be included.		
☐ Assigned To	□ Attributes	
☐ Contact Information	□ Description	
☐ Due At	□ Event Date	
☐ File Information	☐ First Seen	
□ Last Seen	□ Objective	
☐ Priority	□ Published At	
☐ Reporter	□ Source Code	
☐ Spearphish Details	□ Tags	
□ Туре		
Relational Data		
Feeds have the ability to include related objects and their context.		

7. Select the supporting context that should be included in the feed using the checkboxes supplied.



□ Adversaries

Only fields used in the data exported will be selectable. Fields not associated with the data collection selected will be greyed out.

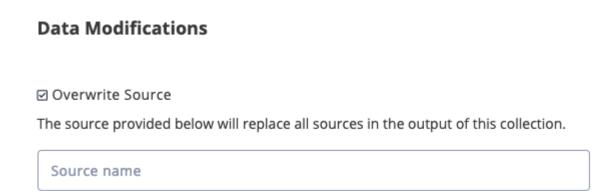
8. Select if you want to include related data in the transfer.





At this time, only related Adversaries are available for this option. If electing to include related adversaries, related attributes of the related adversary will not be included.

Data Modifications



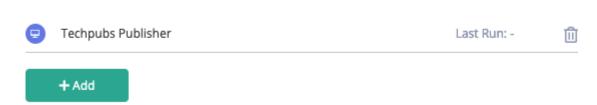
9. Check the **Overwrite Source** checkbox, under Data Modifications, if you wish to change the source name, and enter the new source name. This step is optional.



A subscriber will see the data feed source name under object sources in their object details page. Using the Overwrite Source option will allow you to change this source name.

Recipients

Recipients



10. Click on + Add button under the Recipients section.

The Add Recipients dialog box will open. You will see a list of all connection bundles that you have created. The Subscribers do not have to be connected yet to be assigned to a Data Feed. The Subscriber will not received the Data Feed connection profile or system objects until they have connected to the transport.



- 11. Select the Subscriber as the recipient and click on Add Recipient.
- 12. Click on Save.

The Publisher instance will push the initial Data Feed details to the subscriber recipients that can be viewed Activity Log and Incoming Feeds information pane. The initial data does not include the system objects from the Data Collection. The Data Feed will send its first official push of system objects to the Subscribers based on the the Publish Frequency set in the Basic Info section of the Data Feed.

Editing a Data Feed

You can edit a Data Feed if you are the owner of that feed. There are two ways to edit a feed:

Method 1 - Data Feeds Link

- 1. Click on the **Data Exchange** link in the top navigation and select **Data Feeds**.
- 2. Click on the Data Feed to edit to load the Data Feed form.

Method 2 - Topology View

- 1. Click on the **Data Exchange** link in the top navigation and select **Connections**.
- 2. Click on your instance node in the Topology View.
- 3. Click on the gear icon next to the feed under the **Outgoing Feeds** pane to open the Data Feed form.

Adding a Recipient

You can share a Data Feed with another instance if you are the owner of that feed.

Publishers can share feeds with other Subscribers. Subscribers can only share feeds with the Publisher.

Method 1 - Data Feeds Form

You can add recipients to your Data Feed from the Data Feeds form.

- 1. Click on the **Data Exchange** link in the top navigation and select **Data Feeds**.
- 2. Click on the Data Feed to edit to load the Data Feed form.
- 3. Click on **Add Recipients** and select which stance to add.
- 4. Click on Save.



Method 2 - Topology View

- 1. Click on the **Data Exchange** link in the top navigation and select **Connections**.
- 2. Click on your transport node in the Topology View.
- 3. Click on a instance name to reveal its details with the Client Discovery pane.
- 4. Click on the Share Feed button.

The Share Feed Dialog box will open.

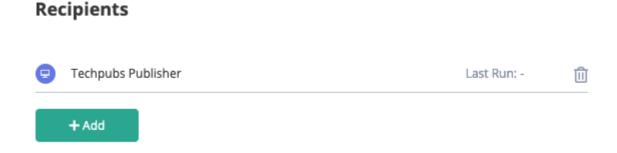
5. Select the feed to share with the instance and click on **Share Feed**.

Removing a Recipient

Use the following steps to remove recipients with whom you are sharing your Data Feed.

Method 1 - Data Feeds Form

- 1. Click on the **Data Exchange** link in the top navigation and select **Data Feeds**.
- 2. Click on the Data Feed to edit to load the Data Feed form.
- 3. Click on Add Recipients and select which stance to add.
- 4. Click on the delete icon $\stackrel{\text{\tiny III}}{=}$ to the right of the recipient's name under the Recipients section.



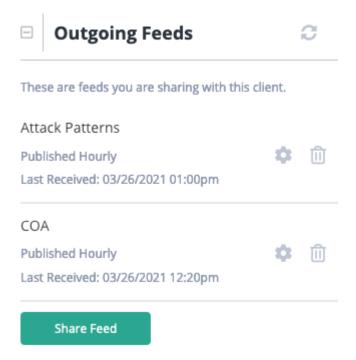


5. Click on **Delete Recipient** when prompted to confirm removal.



Method 2 - Topology View

- 1. Click on the **Data Exchange** link in the top navigation and select **Connections**.
- 2. Click on the recipient's node.
- 3. Locate the feed to remove under the node's Outgoing pane and click on the delete $\widehat{\mathbb{I}}$ icon.





4. Click on **Delete Feed**, when prompted, to remove the recipient from feed.



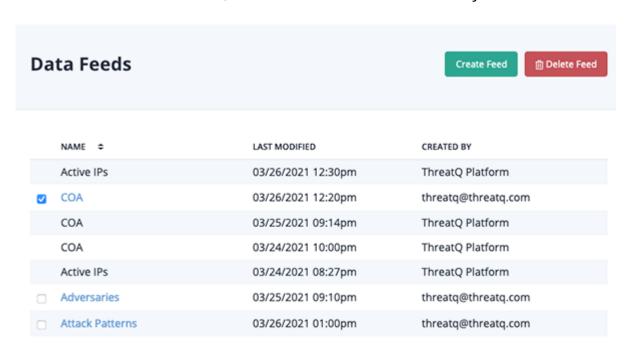
This will not delete the actual Data Feed. It will remove the instance from the feed's recipient list.

Deleting a Data Feed

The Delete Feed button in the Data Feeds page allows you to delete one or more feeds. However, you can only delete the feeds you have created.

Method 1 - Data Feeds page (delete one or more feeds)

1. From the Data Feeds screen, check the box next to each feed you want to delete.



2. Click the **Delete Feed** button.

The **Are You Sure?** window lists the number of feeds to be deleted and prompts you to confirm the deletion.

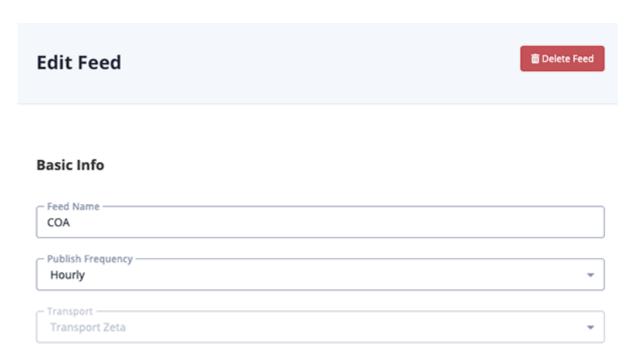




3. Click the **Delete Feeds** button.

Method 2 - Edit Feed Form (delete single Data Feed)

You can also delete a Data Feed from the Edit Feed form by clicking on the **Delete Feed** button.

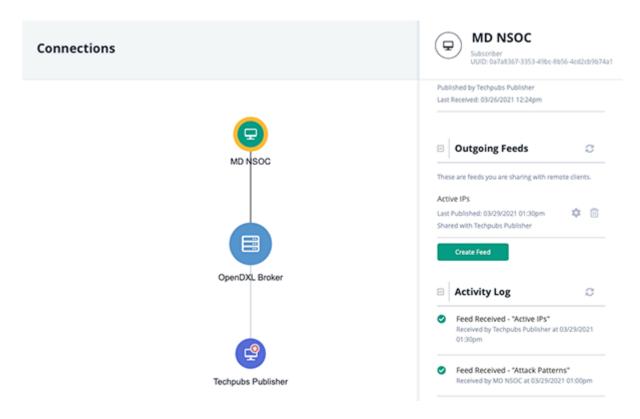




Topology View

You can access your instance's Topology View by clicking on the **Data Exchange** icon in the top navigation bar and selecting **Connections**.

The Topology View provides you with a node-based graph of your connections.



Clicking on a specific node allows you to view related information such as Data feeds you are sharing or receiving, an Activity Log, as well as the ability to create/download new and existing connection bundles (Publishers only).

Instance Naming

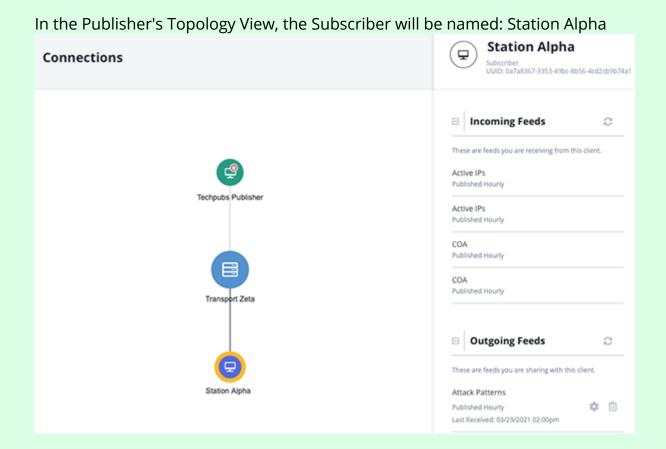
You can rename each node to your preference in order to easily identify other instances and transports in your view. This only affects your instance's Topology View. This allows each instance to use customized naming conventions without affecting other instances.

EX

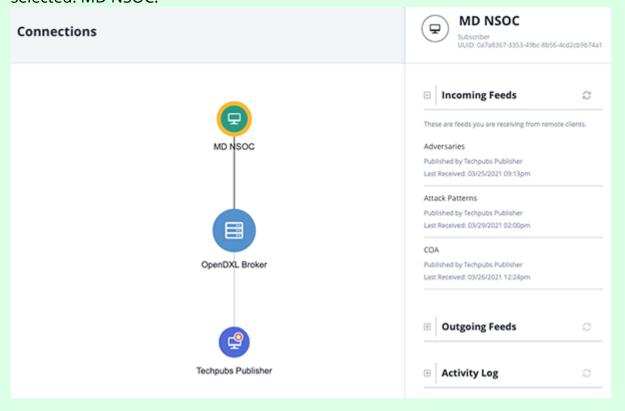
The Publisher names an instance: Station Alpha when creating an integration bundle.

The intended Subscriber will name his instance: MD NSOC.





In the Subscriber's Topology View, the Subscriber will see the instance name he selected: MD NSOC.





Actions

Depending on your instance types, there are various actions you can perform from the Topology View. See the Publisher Actions and Subscriber Actions topics for more details.

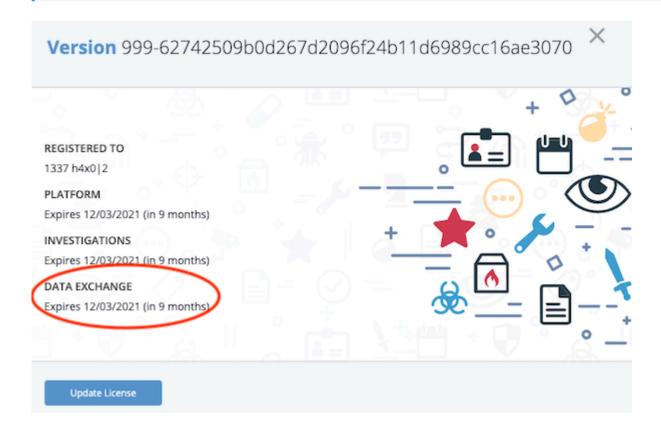


Instance Types

Your work in TQX is shaped by your user instance, Publisher or Subscriber. Your user instance defines the actions you can take and the information you can view. A Publisher has a TQ Broker license and can assign Data Collections to Subscribers. A Subscriber does not have a TQ Broker license and instead uses a standard ThreatQ license. A Subscriber can receive Data Collections from a Publisher and send Data Collections to the Publisher to be re-created and shared with other Subscribers. However, a Subscriber cannot assign Data Collections to other Subscribers.



To check your license status, click the gear icon in the upper right corner and select About. If your license window displays a Data Exchange license, you are a Publisher. If not, you are a Subscriber.

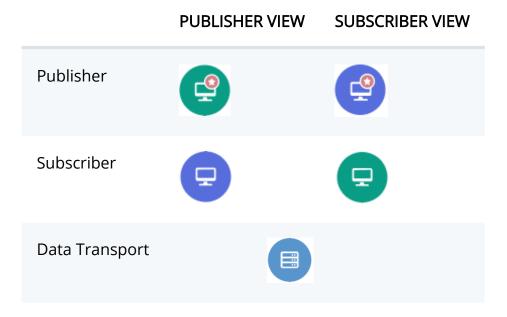


In addition to the user instances associated with individuals, the Data Transport is a OpenDXL transport method configured for sharing data between Publishers and Subscribers. It is the gateway through which the information in Data Feeds flows from Publisher to Subscribers and vice versa.



Icons

Even though the names assigned to Publisher, Client, and Data Transport nodes vary, you can quickly identify these nodes by their distinct icons.



As shown above, icon color varies based on whether you are logged in as a Publisher or a Subscriber. However, the Publisher node is always stamped with a star in the upper right corner.

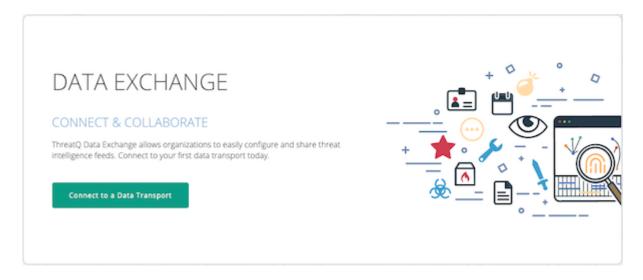
Tips and Tricks

- Within the Connections screen, click the refresh button \bigcirc to refresh the data displayed.
- The Universally Unique Identifier (UUID) for each Publisher and Subscriber is displayed directly below the node name in the details panel. Publisher and Subscriber names can be changed, but this ID cannot.
- Changes to node names can take up to thirty seconds to display.
- You can use the scroll button on your mouse to zoom in and out on the Topology View in the Connections page.
- You can click and drag your Topology View to a different location in the Connections screen.
- You can click any node in the Topology View to view its details on the right side of the screen.



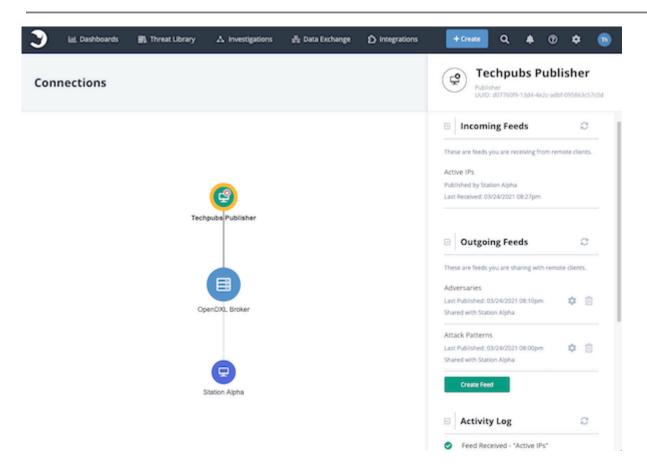
Publisher

Publishers are the driving force of TQX and this is reflected in the Topology View displayed in the Connections page. The first time a Publisher clicks an option on the Data Exchange menu, the Data Exchange wizard leads them through the process of setting up their first Subscriber(s). See the Getting Started - First Connections section for more information on setting up your first connection.



After the Publisher generates a Subscriber connection bundle and the Subscriber uploads it, the Topology View shows that the Publisher and Subscriber communicate via the Data Transport. In the following example, Techpubs Publisher can send Data Collections to Station Alpha via the OpenDXL Broker Data Transport.





Publisher Tasks

As a Publisher, TQX allows you to manage your shared feeds via the following tasks:

- View Your Outgoing and Incoming Data
- View Data Transport Details
- View Subscriber Details
- Update the Name of a Node
- Create a Client Connection Bundle
- Share a Data Collection with a Subscriber

View Your Outgoing and Incoming Data - Publisher View

1. From the Connections screen, click the Publisher node.

The right side of the screen displays a details panel including the following sections:

SECTION DESCRIPTION TASKS



Incoming Feeds

Lists feeds shared with you by Subscribers.

Outgoing Feeds

Lists the Data Collections you have shared with Subscribers.

Delete a Data Feed. - See the Data Feeds topic for more details.

Edit a Data Feed. - Click the gear icon next to the feed name to access the Edit Feed screen. From this screen, you can:

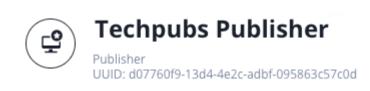
- Edit feed options. Enter your changes and click the Save button.
- Delete a feed. Click the Delete Feed button. The Are You Sure? window warns that feed deletions cannot be undone and prompts you to confirm the deletion by clicking the Delete Feed button.
- Share a feed. Click the Create
 Feed button to access the Create
 Feed window and Share a Data
 Collection with a Subscriber.

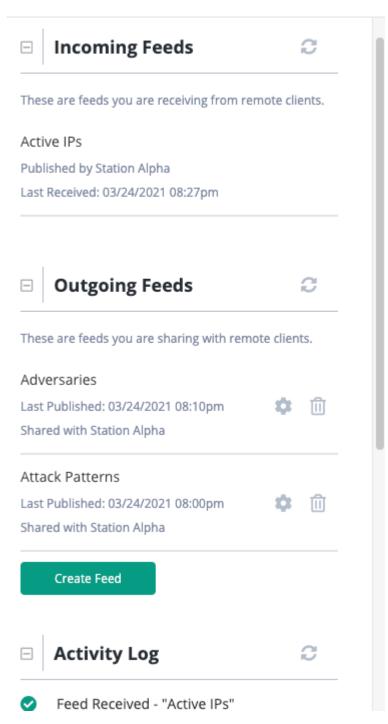
Activity Log

Lists a time/date stamp and brief description for TQX activities such as, your initial setup as a Publisher. Click the **Show More** link to expand the activity log display.

2. Click the +/- button next to a section to expand/minimize details.







View Data Transport Details

From the Connections screen, click the Data Transport node.
 The right side of the screen displays a details panel including the following sections:



SECTION	DESCRIPTION	TASKS
Credential Management	Allows you to work with connection bundles for new or existing Subscribers connected to the Data Transport.	Download a connection bundle Click the Connection Bundle link next to the Subscriber name. Delete a Subscriber's connection Click the trashcan icon next to the Subscriber name to delete his connection to the data transport. Create a connection bundle See the Create a Client Connection Bundle section for more information on this process.
Client Discovery	Lists the Subscribers connected to the Data Transport and the Data Feeds they receive.	View Subscriber feed details Click the arrow next to the Subscriber name to view: • Feeds received by the Subscriber • Feed frequency (hourly or daily) • Date/time the Subscriber last received data from the feed Remove a Subscriber from a feed See the Data Feeds topic for more details. Share/Create a feed Click the Share Feed button to access the Share Feed window. From this window, you can: • Share an existing feed Click the checkbox next to an existing feed you want to share with the Subscriber. Then, click the Share feed button. • Create a new feed Click the Create New Feed button to access the Create Feed window and Share a Data Collection with a Subscriber.



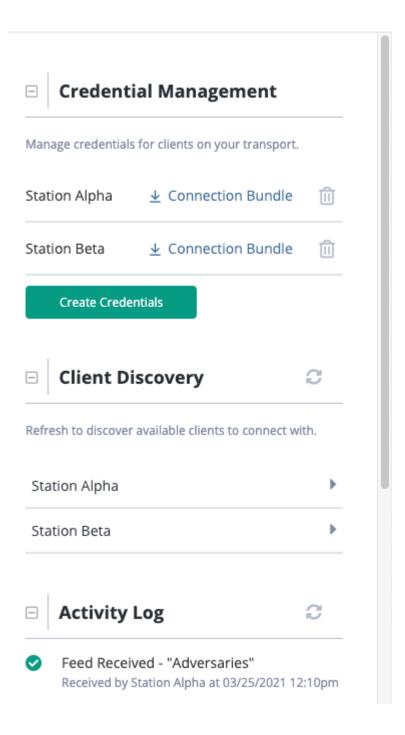
Activity Log

Lists a time/date stamp and brief description for feed activities such as, the initial setup of the Publisher and Subscriber(s). Click the **Show More** link to expand the activity log display.

2. Click the +/- button next to a section to expand/minimize details.







View Subscriber Details

From the Connections screen, click a Subscriber node.
 The right side of the screen displays a details panel including the following sections:



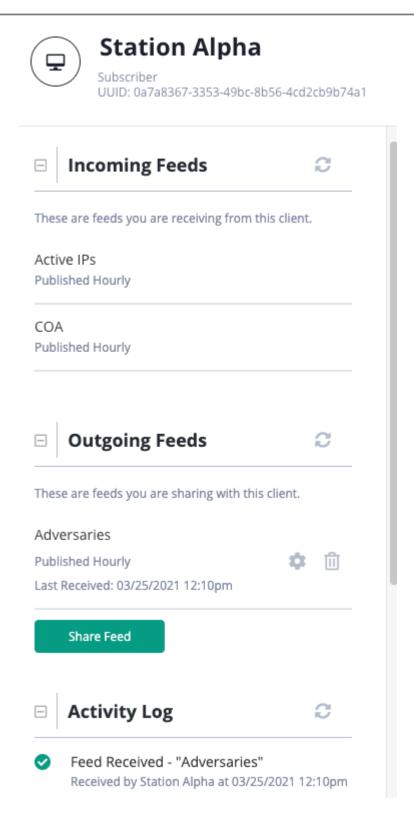
SECTION	DESCRIPTION	TASKS
Incoming Feeds	Lists feeds the Subscriber has shared with you.	
Outgoing Feeds	Lists the feeds you have shared with the Subscriber.	Remove a Subscriber from a feed See the Data Feeds topic for more details. Edit a Data Feed Click the gear icon next to the feed name to access the Edit Feed screen. From this screen, you can: • Edit feed details Enter your changes and click the Save button. • Delete a feed Click the Delete Feed button. The Are You Sure? window warns that feed deletions cannot be undone and prompts you to confirm the deletion by clicking the Delete Feed button. Share/create a feed Click the Share Feed button to access the Create Feed window. From this window you can: • Click the Share Feed button to share an existing feed with the Subscriber. • Click the Create New Feed button to access the Create Feed window and Share a Data Collection with a Subscriber.

Activity Log Lists a time/date stamp and brief description for feed activities such as, initial setup of the Subscriber.

Click the **Show More** link to expand the activity log display.

2. Click the +/- button next to a section to expand/minimize details.





Update the Name of a Node

TQX allows you to change the names of Publisher, Subscriber, and Data Transport nodes. Each Publisher and Subscriber node has a name and a Universally Unique Identifier (UUID).



Although you cannot change UUIDs, you can customize the names of the nodes in your Topology View.

- 1. From the Connections page, click the node's icon in the Topology View. The node details are displayed on the right side of the screen.
- 2. Click the node's name and enter your changes.
- 3. Click the checkmark on the right side of the field to save your change. TQX confirms your change with the following message: Node name updated.



Name changes can take up to thirty seconds to update for all viewers.

Create a Client Connection Bundle

- 1. From the Connections screen, click the Data Transport node. This triggers the display of the details panel on the right side of the Connections screen.
- 2. From the details panel, click the Create Credentials button in the Credential Management section to access the New Client window. Enter the new Subscriber's name in the Client Name field.
- 3. **Optional Step.** The Hostname field displays the name of your current TQX instance, however you have the option to update this name.
- 4. Click the Create Credentials button. The new Subscriber is displayed in the Credential Management section. From this point you can:
 - **Generate a connection bundle.** Click the Connection Bundle link next to the client name to download the connection bundle. Send this file to the Subscriber to upload via their TQX instance.
 - **Delete the client.** Click the trashcan icon ion next to the client name. Click the Delete Client button to confirm the deletion.

Share a Data Collection with a Subscriber

Both Publishers and Subscribers can create Data Feeds to share Data Collections. The only difference is that Publishers can share Data Feeds with Subscribers. Subscribers can only share a Data Feed with a Publisher.

- 1. Use one of the following methods to access the Create Feed page:
 - Click the Create Feed button in your Publisher details panel.
 - Click the Share Feed button in the Subscriber details panel to access the Share Feed window. Then, click the Create New Feed button.



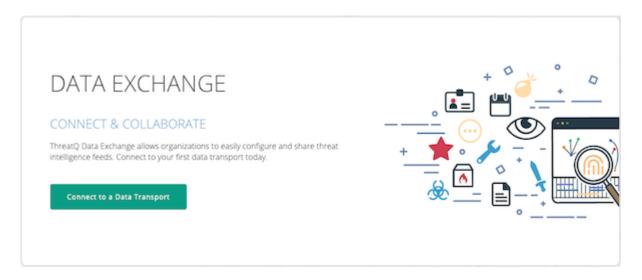
- Select the Data Feeds option on the Data Exchange menu and click the Create Feed button.
- From the Client Discovery section in the Data Transport details panel, click the Subscriber name. Then, click the Share Feed button to access the Share Feed window and click the Create New Feed button.
- 2. See the Data Feeds topic for more details on creating the Data Feed.



Subscriber

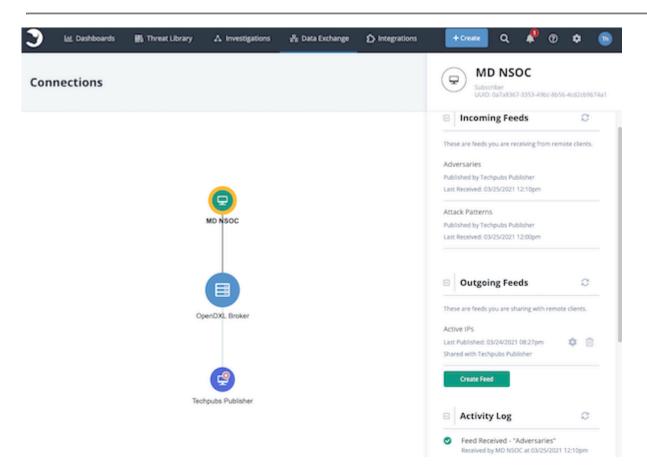
Subscribers benefit from the Data Collections created and sent to them by Publishers as Data Feeds. Although they can receive Data Feeds, they cannot send them to other Subscribers. However, they can send a Data Feed to the Publisher so the Publisher can recreate it and distribute it to other Subscribers.

The first time a Subscriber clicks an option on the Data Exchange menu, the Data Exchange wizard leads them through the process of setting up their first connection. See the Getting Started - First Connections section for more information on setting up your first connection.



After you set up a connection to a Publisher's Data Feed, the Connections screen displays the Topology View which provides a visual diagram of your relationship to the Data Transport and Publisher.





Subscriber Tasks

As a Subscriber, TQX allows you to manage your Data Feeds via the following tasks:

- View Your Incoming and Outgoing Data
- View Data Transport Details
- Delete a Data Transport
- Add a Data Transport
- View Publisher Details
- Update the Name of a Node
- Share a Data Collection with a Publisher

View Your Incoming and Outgoing Data - Subscriber View

1. From the Connections screen, click your Subscriber node.

The right side of the screen displays a details panel including the following sections:

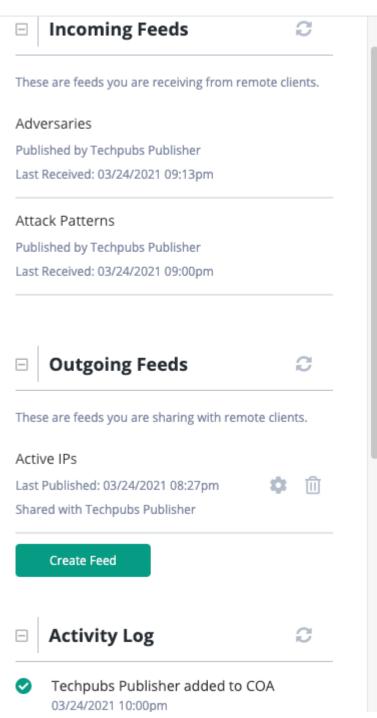


SECTION	DESCRIPTION	TASKS
Incoming Feeds	Lists the following information on feeds shared with you by a Publisher: • Feed name • Publisher name • Date/time the you last received data from the feed	
Outgoing Feeds	Lists the following information on feeds you have shared with a Publisher: • Feed name • Date/time the Publisher last received data from the feed • Publisher name	Remove the Publisher from a Data Feed See the Data Feeds topic for more details. Edit a Data Feed Click the gear icon next to the feed name to access the Edit Feed screen. From this screen, you can: • Edit feed details Enter your changes and click the Save button. • Delete a feed Click the Delete Feed button. The Are You Sure? window prompts you to confirm the deletion by clicking the Delete Feed button. Share/create a feed Click the Share Feed button to access the Create Feed window and Share a Data Collection with a Publisher.
Activity Log	Lists a time/date stamp and brief description for TQX activities such as, your initial setup as a Subscriber.	Click the Show More link to expand the activity log display.

2. Click the +/- button next to a section to expand/minimize details.







View Data Transport Details

1. From the Connections screen, click the Data Transport node.

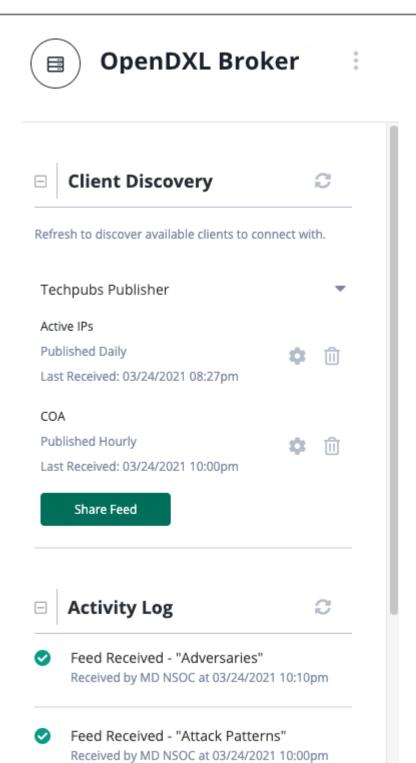
The right side of the screen displays a details panel including the following sections:



SECTION	DESCRIPTION	TASKS
Client Discover	Lists the Publisher with whom you shared a Data Feed.	View Publisher feeds Click the arrow next to the Publisher name to view: Feeds received by the Publisher Feed frequency (hourly or daily) Date/time the Publisher last received data from the feed(s). Remove the Publisher from a Data Feed See the Data Feeds topic for more details. Update Data Feed options Click the gear icon to access the Edit Feed window. After you enter your changes, click the Save button. Share/Create a feed Click the Share Feed button to access the Share Feed window. From this window, you can: • Share an existing feed Click the checkbox next to an existing feed you want to share with the Publisher. Then, click the Share feed button. • Create a new feed Click the Create New Feed button to access the Create Feed window and Share a Data Collection with a Publisher.
Activity Log	Lists a time/date stamp and brief description for TQX activities such as the receipt of a Data Feed by the Subscriber.	Click the Show More link to expand the activity log display.

2. Click the +/- button next to a section to expand/minimize details.





Delete a Data Transport

After you test a connection to a data transport, you may need to remove it. This halts your connection to the Data Feeds shared with you by the Publisher.

1. From the Connections screen, click the Data Transport node.



- 2. Click the vertical ellipses to the right of the Transport icon.
- 3. Select the **Delete Data Transport** option. The **Are You Sure?** window prompts you to confirm the deletion.
- Click the Delete Transport button.
 The cleared Connections screen displays an Add Data Transport button

Add a Data Transport

If you have already completed the initial setup wizard used to add a data transport connection and then later deleted the data transport, the Add Data Transport button allows you to add a new data transport.

- 1. From a blank Connections screen, click the Add Data Transport button. The Add Data Transport window displays.
- 2. Use one of the following methods to add your connection file:
 - Drag and drop the file into the upload section.
 - Use the click to browse link to locate and upload the file.
- 3. Enter the name of the Data Transport in the Transport Name field.
- 4. Click the Add Data Transport button.
 The Topology View lists your Subscriber node and the new Data Transport node.

View Publisher Details

From the Connections screen, click the Publisher node.
 The right side of the screen displays a details panel including the following sections:

SECTION	DESCRIPTION	TASKS
Incoming Feeds	Lists the feeds this Publisher has shared with you as well as how often they are published.	
Outgoing Feeds	Lists the following information on feeds you have shared with a Publisher: • Feed name • Publication frequency (daily or hourly)	Remove the Publisher from a Data Feed See the Data Feeds topic for more details. Edit a Data Feed Click the gear icon next to the feed name to



 Date/time the Publisher last received data from the feed access the Edit Feed screen. From this screen, you can:

- Edit feed details. Enter your changes and click the Save button.
- Delete a feed. Click the Delete Feed button. The Are You Sure? window warns prompts you to confirm the deletion by clicking the Delete Feed button.

Share/create a feed. - Click the Share Feed button to access the Share Feed window. From this window, you can:

- Share an existing feed. Click the checkbox next to
 an existing feed you want
 to share with the
 Publisher. Then, click the
 Share Feed button.
- Create a new feed. Click the Create New Fed button to access the Create Feed window and Share a Data Collection with a Publisher.

Activity Log

Lists a time/date stamp and brief description for TQX activities such as the initial setup of the Data Feed you sent to the Publisher.

Click the **Show More** link to expand the activity log display.

2. Click the +/- button next to a section to expand/minimize details.

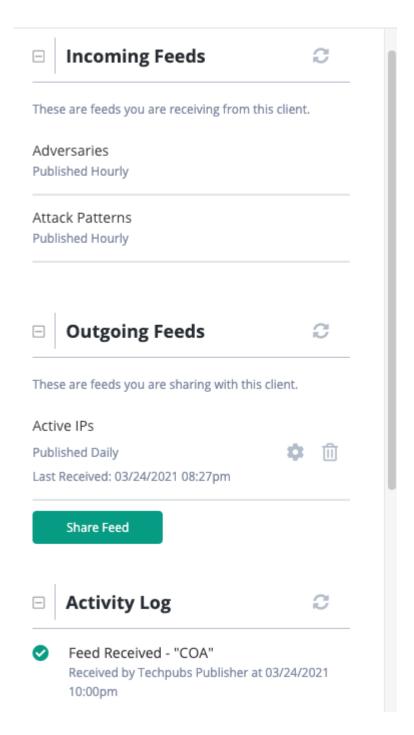




Techpubs Publisher

Publisher

UUID: d07760f9-13d4-4e2c-adbf-095863c57c0d





Update the Name of a Node

Each Publisher and Subscriber node has a name and a Universally Unique Identifier (UUID). Although you cannot change UUIDs, you can customize the names of the nodes in your Topology View.

- 1. From the Connections page, click the node's icon in the Topology View. The node details are displayed on the right side of the screen.
- 2. Click the node's name and enter your changes.
- 3. Click the checkmark on the right side of the field to save your change. TQX confirms your change with the following message: Node name updated.



Name changes can take up to thirty seconds to update for all viewers.

Share a Data Collection with a Publisher

Both Publishers and Subscribers can create Data Feeds to share Data Collections. The only difference is that Publishers can share Data Feeds with Subscribers. Subscribers can only share a Data Feed with a Publisher.

- 1. Use one of the following methods to access the Create Feed page:
 - Click the Share Feed button in the Publisher details panel to access the Share Feed window. Then, click the Create New Feed button.
 - Click the Create Feed button in your Subscriber details panel.
 - Select the Data Feeds option on the Data Exchange menu and click the Create Feed button.
 - From the Client Discovery section in the Data Transport details panel, click the Subscriber name. Then, click the Share Feed button to access the Share Feed window and click the Create New Feed button.
- 2. See the Data Feeds topic for more details on creating the Data Feed.



FAQs

Can I install/use my own data transport?

Currently, TQX only supports the default OpenDXL transport installed with the product. However, future releases will give you the option to implement additional Data Transports.

As a Subscriber, can I send a Data Feed to another Subscriber?

Subscriber instances can send Data Feeds to Publishers. However, they cannot send Data Feeds to other Subscribers. For added security, Subscribers will be unable to see other Subscribers connected to the Publisher.

What happens if my Data Feed contains indicators with a custom status that a Subscriber does not have in place on their instance?

At this time, custom statuses are not supported by TQX. In this event, the custom status would not be created on the Subscriber instance nor would the system objects with that status be ingested by the Subscriber instance.

What happens if my Data feed contains indicators with a set score?

Indicator Scores are not included when sending Data Feeds to another instance.

As a Subscriber, can I unsubscribe to a data feed?

Currently, Subscribers cannot opt out of an individual feed subscription. Subscribers wishing to unsubscribe to a specific feed have two options:

- Contact the Publisher and request that your instance be removed from the Data Feed in question.
- Subscribers can also delete their data transport, which will remove their connection with the Publisher. This option will stop all Data Feeds included in your connection. See the Subscribers topic for more details on Subscriber-specific actions.

As a Subscriber, can I connect to multiple Publishers?

Currently, TQX only supports one data transport per instance. This allows Publishers to connect to multiple Subscribers through one data transport. Subscribers cannot connect to multiple Publishers as it would require additional data transports.

As a Publisher, can I connect to other Publishers?



No, at this time, data connection bundles are designed to provide Publisher > Subscriber and Subscriber > Publisher communication.

As a Publisher that is publishing multiple Data Feeds to a Subscriber, can I remove an individual data feed?

Publishers can remove recipient instances from Data Feeds. See the Data Feeds topic for more information.

How do I upgrade to a Publisher instance?

Contact ThreatQ Sales to purchase a Publisher license. Then, see the Licensing topic in the Help Center for information on adding this new license.

I just connected to a Publisher but I am not seeing threat intel in my Threat Library.

Contact the Publisher to verify that a Data Feed has been created and shared with you. If the Data Feed was shared with you before you connected, you will receive system objects from the Data Feed when there is a change to the Data Feed objects and based on the publish frequency (hourly or daily). For instance, if you connected to the Publisher at noon, 112 feed objects changed at 12:15, and the publish frequency is hourly, you will see threat intel in your Threat Library at 1PM.



Change Log

- Version 1.0.0
 - Initial Release