Azure Event Grid Streaming Import Integration

ⓘ This feature is in beta. Contact your Customer Success representative for more information.

Azure Event Grid is a fully managed event service that enables you to easily manage events across many different Azure services and applications made for performance and scale for event driven applications.
You can easily configure this integration to stream any event published into Azure Event Grid topics in near real-time, and have them in TD CDP for further decision-making.

Learn more about:

Prerequisites

- Basic Knowledge of Treasure Data.
- Basic knowledge of Azure Event Grid.
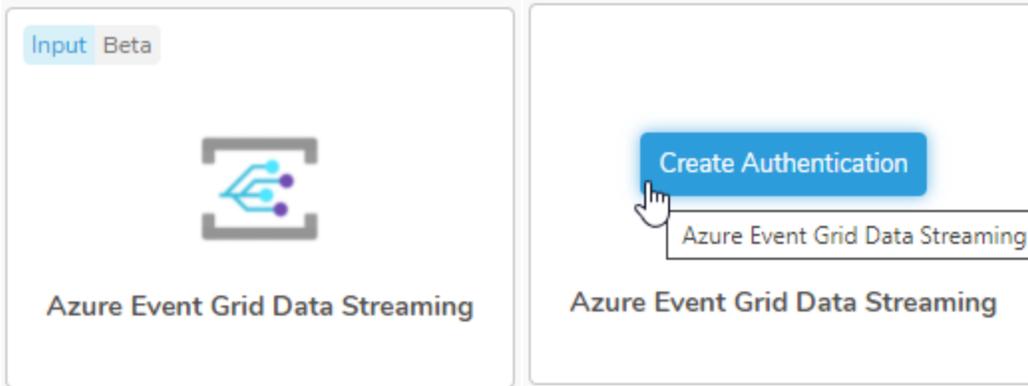- TD API Write-only Key

Limitations

- Custom events must include *"data": {}* to be correctly processed.
- SID is a combination of ASCII characters, digits and special symbols, and has to be a minimum of length 10.
- There is limitation of 2 source creations per account per connector type.
- Duplicate events are allowed.
- A Database and table need to be pre-created (unless the user has a master account).
- All limitations and constraints found in Azure Event Grid delivery and retry - Azure Event Grid apply.
- The expected target latency for data to be available in Plazma is between 5 and 10 minutes.
- TD users are required to use the Write-only API key to create an Azure Event Grid Streaming connection.
- There is a few seconds delay before the newly created source starts streaming data.

Use the TD Console to Create Your Connection

Create a New Connection

In Treasure Data, you must create and configure the data connection before running your query. As part of the data connection, you provide authentication to access the integration.

1. Open **TD Console**.

2. Navigate to **Integrations Hub** > **Catalog**.

3. Search for and select Azure Event Grid Data Streaming.

4. Select **Create Authentication.**

The following dialog opens.

5. Edit the following parameters:

Parameters		Description
Security Identifiers (SIDs)	Re quir ed	SIDs are rotatable access tokens set by the user both in Azure Event Grid webhooks settings and create authentication model. It's a combination of ASCII characters, digits and special symbols, and has to be minimum of length 10. Provide a comma separated list of tokens.
TD API Key	Re quir ed	TD write-only API Key for access to the database. See Getting Your API Keys.

ⓘ Security Identifiers(SIDs) will be masked. We recommend storing SIDs securely in your password manager for future rotations.

6. Select **Continue**.

7. Enter a name for your connection.

8. Select **Done.**

Transfer Your Data to Treasure Data

After the authentication connection step, you are automatically taken to the Authentications listing page.

1. Search for the connection you created**.**

2. Select **New Source**.

3. The Connection dialog in the **Create Source** model opens.

4. Type a name for your **Source** in the Data Transfer Name field**.**

Create Source
Using aeg_api_0927

| 1 Connection | | Data Transfer Name: | |
| 2 Data Settings | | Authentication: | aeg_api_0927 |

Cancel   Back   Next

5. Click **Next**. The Data Settings dialog opens.

Create Source
Using aeg_auth

1 Connection		Datastore:	Plazma
2 Data Settings		Tags:	
			Optional field. Comma-delimited list of tags.

METRICS

| Database: | |
| Table: | |

Cancel   Back   Create

6. Edit the following parameters:

Parameters		Description
Datastore	Required	Plazma is available option.
Tags	Optional	Tags can be used to find this source.
Database	Required	Specify the database within Treasure Data for which you want to import data into.
Table	Required	Specify the table within the database where you would like the data placed.

7. Select **Create**.

Copy the Source Id

The source id (UUID v4) is issued upon a Source creation.

> ⓘ   To prevent misuse, the **Source Id** should not be disclosed to any unauthorized persons.

1. After creating the Source, you are automatically taken to the Sources listing page.

2. Search for the source you created.

3. Click on "..." in the same row and Click **Copy Unique ID.** This Unique ID is the Source ID required when registering endpoint in Azure Event Grid.

Type	Source/Authe... ^	Fetch From	Transfer To	Schedule	Last ...	
	test ps_aeg_api_auth_... by admin streaming		**test_events** in ps_aeg_0923	—		...
	test_aeg ps_aeg_api_auth_... by admin streaming		**test_events** in ps_aeg_0923	—		...

Edit...

Delete...

Copy Unique ID

Endpoint Registration in Azure Event Grid

1. To have events processed by Azure Event Grid streaming connector, an endpoint has to be registered in Azure Event Grid with a valid Source Id. In Azure Event Grid, **Create Event Subscription** for Event Grid Topic.

Create Event Subscription
Event Grid

Basic	Filters	Additional Features	Delivery Properties	Advanced Editor

Event Subscriptions listen for events emitted by the topic resource and send them to the endpoint resource. Learn more

EVENT SUBSCRIPTION DETAILS

Name *   [   ]

Event Schema   [Event Grid Schema   ∨]

TOPIC DETAILS

Pick a topic resource for which events should be pushed to your destination. Learn more

Topic Type   Event Grid Topic

Source Resource   QA-Aed-Topic

EVENT TYPES

Pick which event types get pushed to your destination. Learn more

Filter to Event Types   ⁺▽ Add Event Type

ENDPOINT DETAILS

Pick an event handler to receive your events. Learn more

Endpoint Type *   [∨]

Create

2. Enter the Azure Event Grid endpoint in **ENDPOINT DETAILS.** The Azure Event Grid ingestion endpoints for the US use: https://aeg-in-streaming.treasuredata.com/v1/task/{source id}

Hostnames for other regions will differ but follow the same pattern. For example, for Japan you use: https://aeg-in-streaming.trea

ENDPOINT DETAILS

Pick an event handler to receive your events. Learn more

Endpoint Type *   🔗 Web Hook (change)

Endpoint *   https://aeg-in-streaming.treasuredata.com/v1/task/▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮(change)

suredata.co.jp/v1/task/{source id}

3. Specify Security Identifiers (SIDs) as a static Authorization header. You register an SID from the list of Security Identifiers (SIDs) specified when creating an Authentication to enable rotations.

Specify the SID as *Authorization: BEARER $SID* header in **Delivery Properties** tab under **PROPERTIES SENT ON EVENT DELIVERY** section. Refer to the Quickstart guide from Azure Event Grid for complete instructions Quickstart Portal.

Metrics	Filters	Additional Features	**Delivery Properties**

PROPERTIES SENT ON EVENT DELIVERY

Define headers that are included with the request sent to the destination. For example, you may want to set a fixed value for the Authorization header to be sent with the request. Alternatively, you can set the value as a JsonPath reference to an existing envelope property or to any property in the event data. For more information, consult Event Grid documentation.

Valid dynamic header source fields for currently selected event schema:
- id, topic, subject, eventtype, dataversion
- Custom properties inside the data payload, using "." as the nesting separator. (e.g. data, data.key, data.key1.key2)

Header name	Type	Value	Secret	
Authorization	Static	BEARER ~~xxxxxxxxx~~	True	🗑
[ ]	Static ⌄	[ ]	[ ] Is secret?	

4. Customers can optionally specify event filtering for Event Grid Subscription. There are three options for filtering:

- Event types
- Subject begins with or ends with
- Advanced fields and operators

Create Event Subscription   ⋯
Event Grid

Basic	**Filters**	Additional Features	Delivery Properties	Advanced Editor

SUBJECT FILTERS

Apply filters to the subject of each event. Only events with matching subjects get delivered. Learn more

[ ] Enable subject filtering

ADVANCED FILTERS

Filter on attributes of each event. Only events that match all filters get delivered. Up to 25 filters can be specified. All string comparisons are case-insensitive. Learn more

Valid keys for currently selected event schema:
- id, topic, subject, eventtype, dataversion
- Custom properties inside the data payload, using "." as the nesting separator. (e.g. data, data.key, data.key1.key2)

Key	Operator	Value
No results		

Add new filter

[✓] Enable advanced filtering on arrays ⓘ

Please refer Azure Event Grid document for complete instructions Event Filtering.

Data Ingestion

The connector can start Event data ingestion in TD as soon as the first event is triggered after successful Streaming data source creation.