# **Engine Webhooks**

Webhooks can be configured for engine-level events.

To select an engine-level **Webhooks** event, select **Settings > Webhooks** from the left-hand menu under **Organization Settings**. Then select **Event** to reveal the drop-down menu with all engine-related webhook events.

Figure 1. The Webhooks button under Organization Settings

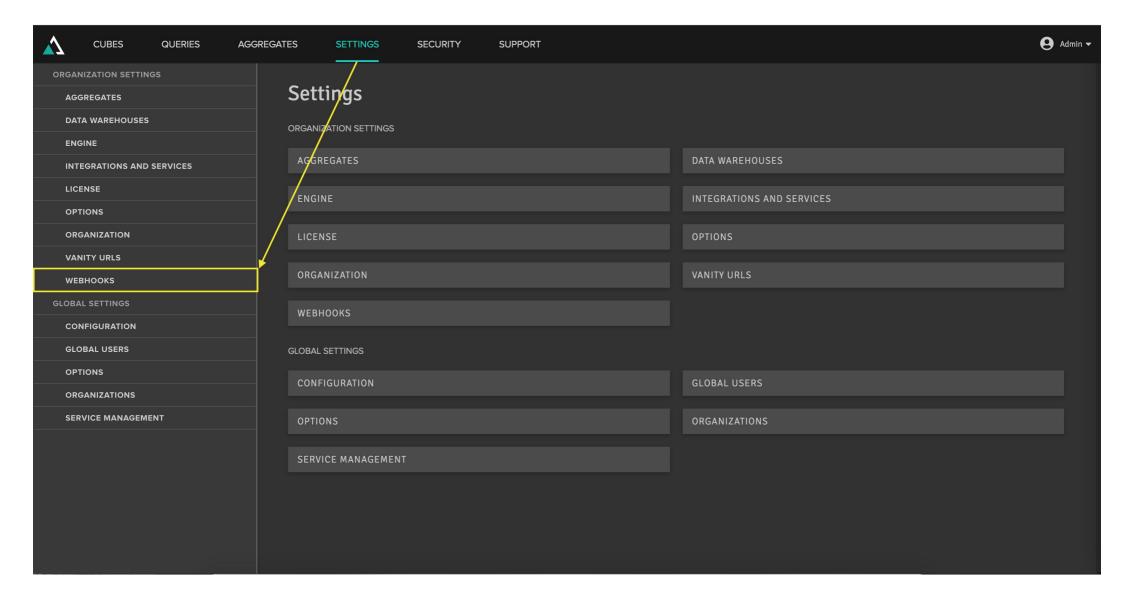


Figure 2. The engine webhook for Aggregate Batch Start



You can configure engine-level webhooks for the following events from the **Event** drop-down menu:

- Aggregate Batch Start
- ▲ Aggregate Batch Success/Failure
- Aggregate Prune Result
- Schema Publish
- Slow Query
- Slow Agg Builds
- Project Unpublish

For details, see the sections below.

### **Common Parameters**

The following POST parameters are used for most of the webhooks:

- ▲ id UUID of the batch
- org\_id UUID of the organization
- project\_id UUID of the project
- cube\_id UUID of the cube; if not available, the value in the payload is 'null'
- event\_type unique value for each event type

## **Event: Aggregate Batch Start**

**Purpose of webhook:** To send a callback upon the initiation of a process to build instances of the aggregate tables for a published cube.

POST parameters:

- Common parameters: id , org\_id , project\_id , cube\_id
- is\_full\_build The value true indicates that all aggregate instances are being fully build. The value false indicates that aggregate instances are being built incrementally.
- event\_type For this event type, the value is aggregate\_batch\_started.

Example URL for a POST request:

http://ATSCALE ENGINE HOST:10502/webhooks/orgld/default/envld/prod

Example payload in POST request:

```
{
    "event_type" : "aggregate_batch_started",
    "id" : "378f70a0-9d1f-4591-b64f-89008b079075",
    "context" : {
        "org_id" : "default",
        "project_id" : "91db9aa1-8947-4e7a-b613-af2ea485990d"
    },
    "is_full_build" : false,
    "cube_id" : "48d6ad30-f139-4f77-517f-36158d7b032b"
    }
```

## **Event: Aggregate Batch Success/Failure**

**Purpose of webhook:** To send a callback when the build process for the aggregate tables of a published cube ends.

POST parameters:

- ▲ Common parameters: id , org id , project id , cube id
- error If the build process failed, this parameter gives a description of the error. If the build process is successful, the value of this parameter is null.
- event type For this event type, the value is aggregate batch result.

Example URL for a POST request:

```
http://ATSCALE_ENGINE_HOST:10502/webhooks/orgld/default/envld/prod
```

Example payload in POST request:

```
{
    "event_type" : "aggregate_batch_result",
    "id" : "378f70a0-9d1f-4591-b64f-89008b079075",
    "context" : {
        "org_id" : "default",
        "project_id" : "91db9aa1-8947-4e7a-b613-af2ea485990d"
    },
    "error" : null,
    "cube_id" : "48d6ad30-f139-4f77-517f-36158d7b032b"
    }
```

# **Aggregate Prune Result**

**Purpose of webhook:** To send a callback when the Cubes in a published project are exceeding their configured limits on the number of active aggregates.

POST parameters:

Common parameters: id , org\_id , project\_id , cube\_id

event\_type - For this event type, the value is aggregate\_prune\_result .

Example URL for a POST request:

```
http://ATSCALE_ENGINE_HOST:10502/webhooks/orgld/default/envld/prod
```

Example payload in POST request:

```
{
"event_type": "aggregate_prune_result",
"id": "378f70a0-9d1f-4591-b64f-89008b079075",
"context": {
  "org_id": "default",
  "project_id": "91db9aa1-8947-4e7a-b613-af2ea485990d"
},
"cube_id": "48d6ad30-f139-4f77-517f-36158d7b032b"
}
```

#### **Event: Schema Publish**

**Purpose of webhook:** To send a callback when a project is created by the pasting or uploading of a project.xml or JSON file on the **New Project** page of the Design Center.

POST parameters:

- Common parameters: org\_id , project\_id
- schema\_id UUID of the project.
- ▲ status Indicates whether the creation of the project succeeded or failed. The values are success and failure.
- event\_type For this event type, the value is publish\_schema\_response.

Example URL for a POST request:

```
http://ATSCALE_ENGINE_HOST:10502/webhooks/orgld/default/envld/prod
```

Example payload in POST request:

```
{
"event_type": "publish_schema_response",
"callback_url": "http://localhost:10502/webhooks/debug/test-callback",
"created_by_user": "vpareto"
}
```

# **Event: Slow Query**

**Purpose of webhook:** To send a callback when the runtime of the queries meet or exceed a user defined cutoff threshold. A slow query execution is four seconds or more by default.

#### POST parameters:

- ▲ Common parameters: org\_id , project\_id , cube\_id
- query\_success T/F flag for whether or not the query was successful.
- query\_id The UUID of the query.
- time\_taken The total time the query ran.
- finished\_at The datetimestamp of when the query completed.
- event\_type For this event type, the value is slow\_query\_event .

#### Example URL for a POST request:

```
http://ATSCALE_ENGINE_HOST:10502/webhooks/orgld/default/envld/prod
```

#### Example payload in POST request

```
{
"event_type" : "slow_query_event",
"query_id" : "04dd09c8-4cfd-47b6-9dba-caf970880d6e",
"finished_at" : "2021-12-07T15:44:07.077397Z",
"org_id" : "default",
"query_success" : true,
"time_taken" : 3.7080559730529785,
"project_id" : "91db9aa1-8947-4e7a-b613-af2ea485990d",
"cube_id" : "48d6ad30-f139-4f77-517f-36158d7b032b"
}
```

# **Event: Slow Agg Builds**

**Purpose of webhook:** To send a callback when a slow aggregate build occurs, including successful, running, and failed builds. A slow aggregate build is four seconds or more by default.

#### POST parameters:

- Common parameters: org\_id , project\_id , cube\_id
- ▲ type The type of slow aggregate build event. For example, aggregate-build-completed-event.
- instance\_id The UUID of the aggregate instance.
- definition\_id The UUID of the aggregate definition.
- triggering\_query\_id The UUID of the query that triggered the aggregate build.
- user\_defined\_id The UUID of the aggregate, if it is a user-defined aggregate.
- user\_defined\_name The name of the aggregate, if it is a user-defined aggregate.

- message An optional message associated with the aggregate.
- status Indicates the current status of the event. For example, done.
- duration The duration of the event, in milliseconds.
- event\_type For this event type, the value is slow\_agg\_builds.

Example URL for a POST request:

```
http://ATSCALE_ENGINE_HOST:10502/webhooks/orgld/default/envld/prod
```

Example payload in POST request:

```
{
"type" : "aggregate-build-completed-event",
"status" : "done",
"duration" : 7623,
"instance_id" : "b4a8bc98-ea83-4167-8dd4-7f6e8eb0e439",
"definition_id" : "f314e8da-2d54-4297-93e7-aa5b957751e4",
"triggering_query_id" : "8958cebf-8350-4fff-8347-ecec4b06ac88",
"org_id" : "default",
"project_id" : "91db9aa1-8947-4e7a-b613-af2ea485990d",
"event_type" : "slow_agg_builds",
"cube_id" : "48d6ad30-f139-4f77-517f-36158d7b032b"
}
```

# **Event: Project Unpublish**

Purpose of webhook: To send a callback when a project is unpublished from the Engine.

**POST parameters:** None.

Example URL for a POST request:

```
http://MY_WEBHOOK_RECEIVER_HOST/atscale/unpublish-schema
```

Example payload in POST request:

```
{
    "event_type" : "unpublish_schema_success",
    "context" : {
        "org_id" : "default",
        "project_id" : "161d6ee9-7548-4004-46e7-89b15d70cd5b"
    }
}
```

### **More Information**

Example Code for a Webhook Receiver Server