

Arrowhead Event Handler Core Service 4.1.3 Release Notes

In Arrowhead version 4.1.3, the whole codebase of the Arrowhead framework has been rewritten using Spring Boot technology. We believe the new version is better both in code quality, performance and robustness. It is easier to use, maintain and improve.

However, this means that Arrowhead version 4.1.3 is NOT compatible with providers and consumers written for version 4.1.2 because the changes affect not just the backend but the public interface of the core services, too.

This document describes the new public API of the Arrowhead Event Handler Core Service 4.1.3 and shows the key differences between the new interface and the old one.

Client Services

These services can be used by publishers and subscribers of the Arrowhead Cloud.

Uri: /eventhandler/echo

Type: GET

Returns a “Got it” message with the purpose of testing the core service availability.

Uri: /eventhandler/publish

Type: POST

Start the publishing process to deliver the event to the subscribers.

Input JSON structure:

```
{
  "eventType": "string",
  "metaData": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "payload": "string",
  "source": {
    "address": "string",
    "authenticationInfo": "string",
    "port": 0,
    "systemName": "string"
  },
  "timeStamp": "string"
}
```

4.1.3.

- *return type* – Unlike the 4.1.2 version, for performance and security reasons there is no attempted delivery resultMap to be returned to the publisher.
- *input type* – Unlike the 4.1.2 version, there is no additional event field in input JSON. The eventType, metaData, payload and timestamp fields alongside with source field are the top level fields in the current version. Since the change of the return type there is no deliveryCompleteUri field in the current version.

Uri: /eventhandler/subscribe

Type: POST

Creates a subscription record specified by parameters.

Input JSON structure:

```
{
  "eventType": "string",
  "filterMetaData": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "matchMetaData": true,
  "notifyUri": "string",
  "sources": [
    {
      "systemName": "string",
      "address": "string",
      "authenticationInfo": "string",
      "port": 0
    }
  ],
  "startDate": "string",
  "endDate": "string",
  "subscriberSystem": {
    "systemName": "string",
    "address": "string",
    "authenticationInfo": "string",
    "port": 0
  }
}
```

4.1.3.

- *authorization* – Subscribers will only receive events from publishers if the subscriber system has a valid authorization record with the publisher (subscriber as consumer, publisher as provider, for any service and interface).
- *sources* – If sources field is empty or not present the subscriber will receive events from all authorized publishers. If there is even one publisher system in the sources field, the subscriber will only receive events from the authorized publishers from the given publisher systems. Unlike the 4.1.2 version, if a given publisherSystem do not exists in the database it will not be created .

- *matchMetaData* – If matchMetaData field is true, filterMetaData field must have at least one key-value pair defined.
- *filterMetaData* – If filterMetaData field has key-value pairs defined and matchMetaData field is true, the subscriber will only receive events when the event has all the key-value pairs defined in its metadata. The keys must match case, the values are not case sensitive.
- *startDate* – If startDate is defined, the subscriber system will only receive events when the events timestamp is after startDate. StartDate must be after the current datetime.
- *endDate* – If endDate is defined, the subscriber system will only receive events when the events timestamp is before endDate. EndDate must be after the current datetime. If startDate is defined endDate must be after startDate.
- *subscriberSystem* – Unlike the 4.1.2 version, if a given subscriberSystem does not exist in the database it will not be created.

Uri: /eventhandler/unsubscribe

Type: DELETE

Query params:

- *event_type* – string value of subscriptions event type name (mandatory),
- *system_name* – string value of subscriber system name (mandatory),
- *address* – string value of subscriber system address (mandatory),
- *port* – integer value of subscriber system port (mandatory)

Removes the subscription record specified by parameters.

The following services are no longer exist:

- DELETE /eventhandler/subscription/type/{type} /consumer/{systemName}
- PUT /eventhandler/subscription

Management Services

These services can only be used by the system operator of the local cloud. All date fields contain the text representation of a UTC timestamp.

Uri: /eventhandler/mgmt/subscriptions

Type: GET

Query params:

- *page* – zero-based page index (optional),
- *item_per_page* – maximum number of items returned (optional),
- *sort_field* – sort field (optional, default: id, possible values: id, createdAt, updatedAt),
- *direction* – direction of sorting (optional, default: ASC, possible values: ASC or DESC)

Returns a page of subscription record. If page and item_per_page are not defined, returns all records.

Returned JSON structure:



```

{
  "count": 0,
  "data": [
    {
      "id": 0,
      "eventType": {
        "id": 0,
        "eventName": "string",
        "createdAt": "string",
        "updatedAt": "string"
      },
      "filterMetadata": {
        "additionalProp1": "string",
        "additionalProp2": "string",
        "additionalProp3": "string"
      },
      "matchMetadata": true,
      "notifyUri": "string",
      "sources": [
        {
          "id": 0,
          "systemName": "string",
          "address": "string",
          "authenticationInfo": "string",
          "port": 0,
          "createdAt": "string",
          "updatedAt": "string"
        }
      ],
      "startDate": "string",
      "endDate": "string",
      "subscriberSystem": {
        "id": 0,
        "systemName": "string",
        "address": "string",
        "authenticationInfo": "string",
        "port": 0,
        "createdAt": "string",
        "updatedAt": "string"
      },
      "createdAt": "string",
      "updatedAt": "string"
    }
  ]
}

```

Uri: /eventhandler/mgmt/subscriptions/{id}

Type: GET

Returns the subscription record specified by the id path parameter.

Returned JSON structure:

```

{
  "id": 0,
  "eventType": {
    "id": 0,
    "eventName": "string",

```

```

        "createdAt": "string",
        "updatedAt": "string"
    },
    "filterMetaData": {
        "additionalProp1": "string",
        "additionalProp2": "string",
        "additionalProp3": "string"
    },
    "matchMetaData": true,
    "notifyUri": "string",
    "sources": [
        {
            "id": 0,
            "systemName": "string",
            "address": "string",
            "authenticationInfo": "string",
            "port": 0,
            "createdAt": "string",
            "updatedAt": "string"
        }
    ],
    "startDate": "string",
    "endDate": "string",
    "subscriberSystem": {
        "id": 0,
        "systemName": "string",
        "address": "string",
        "authenticationInfo": "string",
        "port": 0,
        "createdAt": "string",
        "updatedAt": "string"
    },
    "createdAt": "string",
    "updatedAt": "string"
}

```

Uri: /eventhandler/mgmt/subscriptions/{id}

Type: PUT

Update requested Subscription entry by the given id and parameters

Input JSON structure:

```

{
    "eventType": "string",
    "filterMetaData": {
        "additionalProp1": "string",
        "additionalProp2": "string",
        "additionalProp3": "string"
    },
    "matchMetaData": true,
    "notifyUri": "string",
    "sources": [
        {
            "address": "string",
            "authenticationInfo": "string",
            "port": 0,
            "systemName": "string"
        }
    ],
    "startDate": "string",
    "endDate": "string",
}

```

```

"subscriberSystem": {
  "systemName": "string",
  "address": "string",
  "authenticationInfo": "string",
  "port": 0
}
}

```

Returns the updated subscription record specified by the id and parameter.

Returned JSON structure:

```

{
  "id": 0,
  "eventType": {
    "id": 0,
    "eventName": "string",
    "createdAt": "string",
    "updatedAt": "string"
  },
  "filterMetaData": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "matchMetaData": true,
  "notifyUri": "string",
  "sources": [
    {
      "id": 0,
      "systemName": "string",
      "address": "string",
      "authenticationInfo": "string",
      "port": 0,
      "createdAt": "string",
      "updatedAt": "string"
    }
  ],
  "startDate": "string",
  "endDate": "string",
  "subscriberSystem": {
    "id": 0,
    "systemName": "string",
    "address": "string",
    "authenticationInfo": "string",
    "port": 0,
    "createdAt": "string",
    "updatedAt": "string"
  },
  "createdAt": "string",
  "updatedAt": "string"
}

```

Uri: /eventhandler/mgmt/subscriptions/{id}

Type: DELETE

Removes the subscription record specified by the id path parameter.

Private Services

These services can only be used by other core services, therefore they are not part of the public API.