AEC Daily EventStream — Events API

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1   Overview

In this document we describe the AEC Daily Events API, which provides a RESTful API which allows EventStream customers to access event files.

The API provides methods to count, list, get, and archive JSON event files.

2   Authentication

API access is authenticated using "HTTP Basic authentication" using a numeric "sponsorid" (as the userid part) and an alphanumeric "apikey" (as the password part). A customer's sponsorid and apikey will (soon) be available in https://stats.aecdaily.com

More information about HTTP Basic authentication is available at

- https://en.wikipedia.org/wiki/Basic_access_authentication

Your HTTP GET request to the api must include an Authorization header with a Base64 encoding of the "sponsorid:apikey" string, which looks like this:

```
Authorization: Basic TA3DI5jyVoSXVaJOJUZNhZNUWk=
```

3   count Method and Sample API call

Here is an example of a simple API call using the curl command to return the count of event files available in the queue, for sponsorid "12345" and corresponding apikey "abcdefghi":

```
curl \
    -u 12345:abcdefghi \
    --basic \
    https://api.aecdaily.com/events/v1/count
```

This will return a response similar to:

```
HTTP/1.1 200 OK
Date: Fri, 05 Apr 2024 01:58:11 GMT
Server: Apache
Content-Length: 4
Connection: close
Content-Type: text/plain; charset=us-ascii


252
```

4   list Method

The "list" endpoint at

```
https://api.aecdaily.com/events/v1/list
```

returns a list of available event files, one per line, in ascending date order, in a response similar to:

```
HTTP/1.1 200 OK
Date: Fri, 05 Apr 2024 02:00:00 GMT
Server: Apache
Content-Length: 1234
Vary: Accept-Encoding
Connection: close
Content-Type: text/plain; charset=us-ascii

courseview_20240311_210635_39849_65efaa9b58dea.json
download_20240311_210643_39941_65efaaa32b4e2.json
online_20240311_215641_55864_65efb65958c2b.json
coursesurvey_20240311_215815_56368_65efb6b7cea86.json
livesessionchange_20240312_163001_26099_65f0bb496b773.json
```

5   get Method

The "get" endpoint at

```
https://api.aecdaily.com/events/v1/get
```

returns (in JSON format) the first event file in the list, in a response similar to:

```
HTTP/1.1 200 OK
Date: Fri, 05 Apr 2024 02:03:41 GMT
Server: Apache
Content-Disposition: attachment; filename= ←
   courseview_20240311_210635_39849_65efaa9b58dea.json
```

```
Content-Length: 9293
Expires: 0
Cache-Control: must-revalidate, post-check=0, pre-check=0
Connection: close
Content-Type: application/json
```

followed by the JSON content of the event file.

You may add an "archive" option after "get", which causes the JSON file to be sent to you, assumes that you correctly and completely saved the file, and then moves the event file to the archive.

```
https://api.aecdaily.com/events/v1/get/archive
```

Note that there is no way for the server to know that you have successfully received the file, and no way to access archived files.

The "archive" option is only provided for those customers that believe that convenience outweighs reliability, and is not recommended.

A specific event file from the list can be retrieved by including the event file name as a get option e.g.

```
https://api.aecdaily.com/events/v1/get/ ↩
    online_20240403_165636_20590_660dc284618b7.json
```

You could combine get/archive/filename to get and archive a specific file. e.g.

```
https://api.aecdaily.com/events/v1/get/archive/ ↩
    online_20240403_165636_20590_660dc284618b7.json
```

6   archive Method

An event file may be moved from the available list to the archive using the "archive" method e.g.

```
https://api.aecdaily.com/events/v1/archive/ ↩
    courseview_20240311_210635_39849_65efaa9b58dea.json
```

which will provide a response similar to:

```
HTTP/1.1 200 OK
Date: Fri, 05 Apr 2024 02:10:40 GMT
Server: Apache
Content-Length: 65
Connection: close
Content-Type: text/plain; charset=us-ascii

archived ok: courseview_20240311_210635_39849_65efaa9b58dea.json
```

7   amonths Method

Returns a list of the month directories that exist in the archive e.g.

```
https://api.aecdaily.com/events/v1/amonths
```

which will provide a response similar to:

```
HTTP/1.1 200 OK
Date: Fri, 05 Apr 2024 02:10:40 GMT
Server: Apache
Content-Length: 65
Connection: close
Content-Type: text/plain; charset=us-ascii

202403
202404
```

8   alistmonth Method

Returns a list of the event files archived for a particular month e.g.

```
https://api.aecdaily.com/events/v1/alistmonth/202403
```

which will provide a response similar to:

```
HTTP/1.1 200 OK
Date: Fri, 05 Apr 2024 02:10:40 GMT
Server: Apache
Content-Length: 65
Connection: close
Content-Type: text/plain; charset=us-ascii

courseview_20240311_210635_39849_65efaa9b58dea.json
download_20240311_210643_39941_65efaaa32b4e2.json
online_20240311_215641_55864_65efb65958c2b.json
coursesurvey_20240311_215815_56368_65efb6b7cea86.json
livesessionchange_20240312_163001_26099_65f0bb496b773.json
```

9   arestore Method

Moves an archived file from the archive back into the ready state e.g.

```
https://api.aecdaily.com/events/v1/arestore/202403/ ←
   courseview_20240311_210635_39849_65efaa9b58dea.json
```

which will provide a response similar to:

```
HTTP/1.1 200 OK
Date: Fri, 05 Apr 2024 02:10:40 GMT
Server: Apache
Content-Length: 65
Connection: close
Content-Type: text/plain; charset=us-ascii

restored ok: 202403/courseview_20240311_210635_39849_65efaa9b58dea. ↩
    json
```

10   aget Method

Gets a file from the archive e.g.

```
https://api.aecdaily.com/events/v1/aget/202403/ ↩
    courseview_20240311_210635_39849_65efaa9b58dea.json
```

returns (in JSON format) the requested event file from the archive in a response similar to:

```
HTTP/1.1 200 OK
Date: Fri, 05 Apr 2024 02:03:41 GMT
Server: Apache
Content-Disposition: attachment; filename= ↩
    courseview_20240311_210635_39849_65efaa9b58dea.json
Content-Length: 9293
Expires: 0
Cache-Control: must-revalidate, post-check=0, pre-check=0
Connection: close
Content-Type: application/json
```

followed by the JSON content of the event file.

11   Errors

Errors, such as missing arguments, invalid filenames, authentication, etc., are indicated by an HTTP 401 or 404, and a short text error message in the reply.

12   Additional Information

If you require additional information, or have any questions, please contact tech@aecdaily.com.

Other related documents include:

- AEC Daily EventStream — Overview
- AEC Daily EventStream — Event Files