

Aiida Websocket Documentation

Our websocket API is built on [Socket.IO](#), a very well-established library with implementations in many different languages.

Connecting:

Start by connecting to api.aiida.io/events with your *socket.io* client of choice.

Subscribing to a workspace:

Once a connection has been established, you will need to subscribe to the workspace you want to receive events for. This is done by emitting the `"select-workspace"`-event with the ID of the workspace.

Javascript example:

```
socket.emit('select-workspace', id)
```

If you want to select another workspace, you can first unsubscribe from the previous one by emitting a `"deselect-workspace"`-event.

Javascript example:

```
socket.emit('deselect-workspace')
```

Available events:

Once you are subscribed, there are several events you can listen to.

`"item-updated"`:

This event is emitted when an item has been updated, and contains the entire item body.

Javascript example:

```
socket.on('item-updated', callback)
```

Response example:

```
{
  "id": "f0f83a32-78c7-11ea-b5a0-aae5aec171fd",
  "created_at": "2020-04-07 12:04:32.490568",
  "updated_at": "2020-04-14 10:25:49.598904",
  "name": "Invoice (Albert)",
```

```
"error": null,
"state": "rejected",
"document_type": "",
"user_id": null,
"column_id": "25381099-c1a5-4b9a-b855-f451ebab6a48",
"collection_id": "306ad576-1d45-41b3-bc7f-89614683b382",
"original_file_id": "f0fafa42-78c7-11ea-b5a0-aae5aec171fd",
"locked_by_user_id": null,
"deleted": false,
"values": [],
"page_count": 3,
"comment_count": 0
}
```

"item-removed":

This event is emitted when an item is deleted, and only contains the ID of the deleted object.

Javascript example:

```
socket.on('item-removed', callback)
```

Response example:

```
"adb4d7c4-6393-11ea-93b3-d6745ad247f4"
```

"column-patched":

This event delivers a partial column object, to reflect any changes that have occurred.

Javascript example:

```
socket.on('column-patched', callback)
```

Response example:

```
{
  "id": "25381099-c1a5-4b9a-b855-f451ebab6a48",
  "created_at": "2019-10-15 13:05:58.850418",
```

```
"updated_at": "2019-10-15 13:05:58.850426",  
"name": "Inbox",  
"workflow_id": "9a4cc3e9-4f39-4bf8-ab72-c95f5424357f",  
"type": "inbox",  
"settings": {},  
"index": 0,  
"subscribed_items": 1,  
}
```