

✓ FastTrack Software

Admin By Request

API REQUEST APPROVAL

How to retrieve and approve requests through the API

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Introduction

The purpose of this document is to demonstrate, how requests can be retrieved and approve from an external system. The goal is to empty the request queue on an interval and approve or deny requests that are already stored in the external system. The scenario could be to make a recurring job in ServiceNOW and then add buttons on tickets to approve or deny requests.

The public REST API is explained on this page: https://www.adminbyrequest.com/PublicAPI

The API exposes the same features as you can find in the portal and the mobile app. There are three areas: Auditlog, Requests and Inventory. The details and fields of each API can be found here: https://www.adminbyrequest.com/Docs/API/Auditlog.aspx https://www.adminbyrequest.com/Docs/API/Requests.aspx https://www.adminbyrequest.com/Docs/API/Inventory.aspx

Set up

The first step is to generate an API key. By default, your tenant data are not exposed to the public API. You have to generate a new key and use to get the data. Note that the API has brute force protections in place, so it's safe to open the API.

| Authorization | | PRIVACY | DATA RETE | NTION API ACCESS |
|----------------------------------|------------|--|-----------|---|
| Endpoint | | API Access | | About API Access |
| Lockdown | API access | ом 495e571a621440bab5bqe8e8c24b1a55 | - | API Access allows you to extract your data through our public API. Note that this setting is a global setting across your Windows, Mac and |
| Malware NEW | API Key | 495e5/1ao21440DaD50ge6e8c24D1a55 | | Server settings. It's either on or off for your entire tenant with the same API key. |
| Applications | | Save | | Please refer to <u>this page</u> for documentation. |

Once we have this key, we can make a call to the API using the API key as the "apikey" header. We will be using the free Postman (<u>https://www.postman.com/</u>) to demonstrate the use. Here we have called the Auditlog API to get entries.

| GET • GET • GET • POST• POST• | • POST• GET F• GET • GET • PUT GE | ET 6ET ● ▶ + ••• No Environment ▼ ⊙ |
|---|-----------------------------------|---|
| ▶ Auditlog Dev | | Comments 0 Examples 0 |
| GET • https://dc1api.adminbyrequest.com/auditlog | | Send - Save - |
| Params Authorization Headers (8) Body Pre-request | Script Tests Settings | Cookies Co |
| Headers © 7 hidden | | |
| KEY | VALUE | DESCRIPTION *** Bulk Edit Presets * |
| apikey | 495e571a621440bab5b9e8e8c24b1a55 | |
| Key | Value | Description |
| ody Cookies Headers (9) Test Results | | Status: 200 OK Time: 544ms Size: 54.95 KB Save Response |
| 206 "ElevatedApplications": [207 { 208 "Path": "C:\\Program Files\\totalcmd 209 "Files Compare Files\\totalcmd | ;", | |
| 207 208 209 209 209 209 209 209 209 209 | *, | |
| 207 { 208 209 209 209 209 201 209 201 201 201 201 201 202 203 203 204 205 204 205 | π, | |
| 287 { 288 "Path": "C:\\Program Files\\totalcmd 299 "Name": "TOTALCMD64.EXE", 210 "Name": "Total Commander" 211 } 212], 213 "ScanResults": [], 214 "IO": 51134241, 215 "Type": "Mun As Admin", 216 "TypeCode": 0, 217 "Status": "Finished", 218 "Status": "Inished", 219 "Application": (219 "Application": (219 "Mame": "TOTALCMD64.EXE", 219 "Version": "0hilshed", 210 "File": "TOTALCMD64.EXE", 211 "Wersdor": "Onisle Software GmbH", 212 "Version": "0hilshed", 213 "Versdor": "0hilshed", | | |
| 207 208 209 209 209 209 209 209 210 211 212 213 313 320 213 321 214 215 215 215 216 217 217 218 218 219 219 219 219 219 219 219 219 | | 7834F772206706755674F44Ff*. |

Getting requests

Requests will appear in the "Requests" top menu in the portal as shown here:

| | Pending Approval Requests Users will be notified by email of approval or denial. Requests will drop out of the list after two weeks. If the user doesn't use an approve request within two weeks, the approval will also expire. You can approve or deny requests using the <u>mobile app</u> also. |
|--|--|
| | PENDING (1) APPROVED (0) DENIED (1) QUARANTINED (0) |
| Email: <u>support</u> • Requesting • File: <u>cmd.ex</u> | 1 11:25:27 • FastTrack Software Support Approve tafasttracksoftware.com • Phone: 333,333,3333 • Computer: FTW/INto-AALBORG-DENMARK Approve g to run Windows Command Processor 10.0.21390.1 (WinBuild.160101.0800) from Microsoft Corporation Deny xee • Metadefender: Clean • Virustotal: Run check Deny |

To get a list of pending requests for approval, we need to call the Requests API indicating that we are only interested in "Pending" states. The URL is then (dc1api for Europe and dc2api for US tenants): https://dc1api.adminbyrequest.com/requests?status=pending

This will give us a list in json format with all the same information that is shown in the portal:

| GET ~ | https://dc1api.adminbyrequ | lest.com/requests?status=p | bending | | S | Send ~ |
|--|---|--|---------------------------------|----------------|-----------|------------|
| Params Auth | Headers (7) Body Pre- | -req. Tests Settings | | | | Cookies |
| Headers 💿 6 his | dden | | | | | |
| KEY | | VALUE | | DESCRIF ••• | Bulk Edit | Presets ~ |
| apikey | | b863e0ffc89948f98415e | 2622afa66f3 | | | |
| Key | | Value | | Description | | |
| Body Cookies H | eaders (9) Test Results | | | DK 519 ms 1.31 | KB Save | Response ~ |
| Pretty Raw | Preview Visualize | JSON V | | | | a |
| 4 "** 5 "** 6 "** 7 "** 8 "** 9 "** 10 "** 10 "** 11 "** 12 13 14 15 16 16 17 18 19 20 21 } | "sha256": "61B4C38792F5 "scanResult": "Clean", "scanResultCode": 0, "threat": null, "virustotalLink": " <u>http</u> <u>61B4C38792F586995F8</u> | nd Processor", prporation", .1 (WinBuild.160101.0800 586995F8E1B8E935B2DE1D60 ps://www.virustotal.com/ 3E1B8E935B2DE1D6C7941A71 ASTTRACKSOFTWARESUP", Software Support", tracksoftware.com", | 7941A71A57FC1/ /latest-scan/ | | CD", | |

Approving requests

Notice that each request has an "id" field. This field is used to perform an approve or deny request as explained in the documentation here: <u>https://www.adminbyrequest.com/RequestsAPI</u>

Resources

| | - | | |
|---|---|---|--------|
| https://dc1api.adminbyrequest.com/requests | | Returns an array of requests | GET |
| https://dc1api.adminbyrequest.com/requests/{id} | D | Returns one request | GET |
| https://dc1api.adminbyrequest.com/requests/{id} | D | Approve request. If request is already approved or started, nothing happens | PUT |
| https://dc1api.adminbyrequest.com/requests/{id} | D | Deny request. If request is already approved or started, nothing happens | DELETE |

So all we have to do is to make a simple PUT request with the ID:

| PUT | ~ | https://dc1api.adminbyrequest.com/requests/65430027 | Send | |
|-----|---|---|------|--|
| | | | | |

... and the request is now approved and the user is notified accordingly. It's that simple!

| Se la compañía de la | Pending Approval Requests Users will be notified by email of approval or denial. Requests will drop out of the list after two weeks. If the user doesn't use an approve request within two weeks, the approval will also expire. You can approve or deny requests using the <u>mobile app</u> also. |
|---|---|
| | PENDING (0) APPROVED (1) DENIED (1) QUARANTINED (0) |
| Email: <u>suppor</u> • Requesting • File: <u>cmd.e</u> ; | 21 11:25:27 • FastTrack Software Support Deny rts_fasttracksoftware.com • Phone: 333,333,3333 • Computer: FTWIN10-AALBORG-DENMARK Deny g to run Windows Command Processor 10.0.21390.1 (WinBuild.160101.0800) from Microsoft Corporation Deny eed to run a cmd • Virustotat: Run check Deny |

Keeping state

So how do you only get new requests? The easiest way is to store the highest id you have received before and use this for the next calls. Here are the filters for the Requests API:

| status | Only get request of a certain type (possible values: Pending, Denied, Approved, Quarantined) | int |
|-----------------|---|--------|
| startid | The starting ID you wish to receive. Can be used for incremental offload of data to your own system | int |
| take | Maximum number of resources to return. Default is 50 to preserve bandwidth, maximum is 1000. For queries with more than 1000 records, pagination is mandatory | int |
| last | Entries are retrieve in ascending order. Last returns the latest X number of entries in descending order. Maximum is 1000. Take and startid cannot be combined with last. | int |
| wantscandetails | Use this filter, if you wish to receive detailed lists of scan results. The default is to give you the overall result only | bit |
| reason | Can be passed when denying a request | string |
| deniedby | Can be passed when denying a request - this has to be an email address that matches a portal user, otherwise it will be ignored | string |
| approvedby | Can be passed when approving a request - this has to be an email address that matches a portal user, otherwise it will be ignored | string |

• Example url to get one pending request: https://dc1api.adminbyrequest.com/requests?status-pending&take=1&wantscandetails=1

Pagination works by using the last id in the list and feeding it as startid in the next query

• To copy new data to your own system, we recommend to store the highest id (last entry in list) you have retrieved from a previous call and pass this number plus 1 as 'startid'

Let's say the last request we received was 65430930. Then we add one (since we already received 65430930) and use as startid, meaning that we only want to see any requests with an id higher than 65430930:

GET v https://dc1api.adminbyrequest.com/requests?startid=65430931

Send

Questions?

Feel free to contact us. If you do not have a direct contact at FastTrack Software, feel free to create a support ticket at <u>https://www.adminbyrequest.com/Support</u>