



Introduction

Area 1 Security offers Application Programming Interfaces (APIs) to expose our phishing campaign rulesets. These APIs both aid research and provide a set of indicators to block using network security edge devices.

All API requests are initiated using normal HTTP requests (GET/POST/DELETE), and responses are returned in JSON. Authentication to the APIs uses HTTP Basic Authentication over HTTPS.



Table of Contents

Introduction

API Authentication and Authorization

Rate Limiting

Indicators API

Indicator Search API

Actors API

Anonymity Endpoint API

Emailalert Endpoint API

Alerts Endpoint API

<u>Useractivity Endpoint API</u>

Domain Proximity Endpoint API

Detections Search Endpoint API

Mailtrace Endpoint API

Preview Endpoint API

Analyze SPF Endpoint API

System Status Endpoint API

Customer Reports Endpoint API

MailConfig Allowlist Endpoint API

MailConfig Blocklist Endpoint API

MailConfig Domains Endpoint API

MailConfig Domain Restrictions Endpoint API

MailConfig BEC Endpoint API



API Authentication and Authorization

All API access is controlled with a service account/password pair. Service account creation is self-service through the Area 1 Portal at

https://horizon.area1security.com/settings/service-accounts . For example, to use the Blockable Indicators API with service account

"Nouv9pFhzfCprgMq7ReEW8KQoDdsTgXI9129EzGjbhEZBQFs089SvghphEWxU1yru6I_0q04yWNc123 4" and password "Jwtx6J7wEYQ5mFvi2WUB9qVBj3TgPm6ZntIT0CLobbdAHOIqypjgewCvTSCUabcd", make the following HTTPS request:

curl -u
'Nouv9pFhzfCprgMq7ReEW8KQoDdsTgXI9129EzGjbhEZBQFs089SvghphEWxU1yru6I_OqO4yWNc1
234:Jwtx6J7wEYQ5mFvi2WUB9qVBj3TgPm6ZntITOCLobbdAHOIqypjgewCvTSCUabcd'
https://api.arealsecurity.com/indicators

or with a browser
 https://api.arealsecurity.com/indicators

and the browser will popup a login window to request the service account and password



Rate Limiting

Some API endpoints are rate limited, so that resources can be better shared across all customers using the API. The following endpoints and their limits apply:

/alerts	12 / hour
/indicators	10 / hour
/search	4 / minute

These limits are enforced per customer. If the limit is exceeded, an HTTP 429 (Too Many Requests) status will be returned. The full body and headers, as from a curl command, look like this:

```
HTTP/1.1 429 Too Many Requests

Date: Thu, 13 Jun 2019 17:12:01 GMT

Retry-After: Thu Jun 13 18:11:56 GMT 2019 (in 3595 seconds)

Content-Type: application/json;charset=utf-8

Content-Length: 261

Server: Jetty(9.4.15.v20190215)

{
    "message": "rate limited, query limit exceeded. Retry after: Thu Jun 13 18:11:56 GMT 2019 (in 3595 seconds)",
    "documentation_url": "https://cdn.area1security.com/api/html/rate_limited.html",
    "url": "http://localhost:8080/papillon/indicators",
    "status": 429
}
```



Indicators API

This service returns malicious indicators (file hashes, URLs, domains, and IP address) that we recommend you block at your network edge using proxy devices and firewalls. For each indicator, the service returns the available details listed below. The Indicators API can be polled hourly for new information.

API Endpoints

https://api.area1security.com/indicators

API Parameters

- since limits results to indicators that were discovered after the given epoch timestamp (seconds, default = 0)
- end limits results to indicators that were discovered before the given epoch timestamp (seconds, default = current time)

Any indicator that was active during since-end interval will be returned. Both parameters are optional.

- actor limit the indicators to only those that involve the given actor (e.g. CHN1, RUS2)
- killchain limit the indicators to only those that are of the given killchain
- cat can be a category (e.g. "targeted" or "universal"), a malware family (e.g. "sofacy" or "rocket kitten"), or a threat type (e.g. "Actor Tool" or "Webshell")
- type is one of "domain", "filehash", "address", or "url"

Multiple values can be provided for these last three items by separating the values with commas, like "killchain=1,3" or "actor=CHN1,CHN2". That usage acts like an OR, it will return items that have killchain = 1 OR killchain = 3, or actor = CHN1 OR actor = CHN3.



If more than one of those parameters are used, it will act like an AND on the items. So combining the above example, "actor=CHN1,CHN2&killchain=1,3" would return indicators with an actor value of CHN1 or CHN3 AND a killchain of 1 or 3. An indicator with actor = CHN1 but a killchain = 5 in that case would not be returned.

Example Request

https://api.area1security.com/indicators?since=1449121459&end=1451538000&actor=CHN1&killchain=1,3

Response

Returns a list of indicators that should be blocked. Each item in the list contains:

- **item_type** The indicator's type (ip, domain, filehash, url).
- item_name The name of the indicator (ip address, domain name, filehash, url)
- threat_name The Area 1 Security authored threat name
- first_detected The epoch timestamp of when the indicator was first identified as malicious
- description (optional) A URL at which textual content describing the threat is available.
- **threat_categories** threat context as key value pairs (only present when the value is not null).

 These items are returned as arrays, because there can be multiple values for some of the categories (e.g. a url may be both a *Malicious Web Server* and a *Credential Harvester*):
 - o actor. associated actor code
 - category: targeted or universal (Universal indicators are non-targeted phishing or malicious indicators)
 - o delivery_vector: how the threat is delivered. Ex: email,
 - kill_chain: Kill chain values in the range of 0 through 7 indicating what stages of an attack the indicator is seen or used in. Smaller numbers indicate early stages of attack, larger numbers are associated with late stages of an attack.
 - malware: the family of malware with which the indicator is associated. Ex: Derusbi,
 Poisonlyy, PlugX
 - o *motive*: motive of the threat actors using the indicator. Ex: espionage
 - threat_type: the threat type associated with the indicator. Ex: credential harvester, ransomware etc.



Example Response

Note: The following indicators' item_names are not legitimate.

```
[
      "threat name": "Actor Infrastructure",
      "item type": "address",
      "item name": "127.0.0.1",
      "first detected": 1448604680
    },
      "threat name": "Google Credential Harvester",
      "item type": "domain",
      "item name": "example.com",
      "first detected": 1430582823
    },
      "threat name": "TC.DROPPERS winrar sfx",
      "item type": "filehash",
      "item name": "ad5475019da8dc903d91e0229a9c236e02215538",
      "first detected": 1449138024
    },
      "threat name": "Google Credential Harvester",
      "item type": "url",
      "description": "https://api.areal.com/nirvana/
  google-credential-harvesting.html",
      "item name": "www.example.com/a-bad-url/",
      "first detected": 1449164991,
      "threat categories": [
        {
```





Indicator Search API

This service can be queried with a basic indicator (file hash (MD5/SHA-1/SHA-256), URL, domain, IP Address, or email address) and returns information about the indicator. The API queries multiple Area 1 Security backend services, so the response can vary slightly depending on which service responds to the query.

API Endpoints

https://api.area1security.com/search

API Parameter

- *query* the indicator of interest
- historic return data from Area 1's internal systems for items that are not currently active (default is false, so you must add &historic=true to get this result)

Example Request

https://api.area1security.com/search?query=0123456789abcdeffedcba9876543210

https://api.area1security.com/search?query=127.0.0.1

https://api.area1security.com/search?query=example.com&historic=true

https://api.area1security.com/search?query=http://www.example.com/index.html

Response

Returns information that we know about the indicator, including:

- **indicator** The query term, possibly normalized (lowercased hash values, etc)
- disposition The indicator's status (UNKNOWN, BENIGN, SUSPICIOUS, MALICIOUS).
- **first_seen** The epoch timestamp of when the indicator was first seen
- last_seen The epoch timestamp of when the indicator was last seen



- first_detected The epoch timestamp when Area 1 Security first considered this item to be malicious
- associated_items Lists (possibly empty) of other items associated with the indicator, such as
 urls, files, or an infections_map containing infection names and number of times seen
- Hash_MD5, Hash_SHA1, Hash_SHA256, Hash_authentihash, Hash_imphash, Hash_ssdeep other hash values that can be shown if the query term is a hash (MD5, SHA1, SHA256 are
 supported as query terms)
- **detail** WHOIS information if the guery term is a domain name
- threat_categories additional available data regarding each threat, currently sets of the values
 actor, category, delivery_vector, kill_chain, malware, motive, threat_type
- **threat_status** only displayed if historic=true, value of *active* or *inactive* to denote whether the item is considered a threat at the time of the guery
- **tlp** traffic light protocol (https://www.us-cert.gov/tlp)
- tag_histories show time intervals where an indicator belonged to specific categories
 - o In the first example below, the indicator "127.0.0.1" had one interval where it was tagged with *Actor-ABC1* (2 distinct time ranges within that interval) and one interval tagged with *Actor-ABC41*. That tag is currently active (the *end* value is "current").
 - **confidence_rating** our confidence (0-100) that this tag does indeed apply to the indicator (not all tags will have this field)
 - **overall_confidence** our overall confidence (0-100) for our judgement on this indicator. The value is chosen from a prioritized list of the tag_histories in the order { Actor, Indicator Category, Malware, Target, any other tag }.

All fields may not be present for a given query.

Example Response

Note: The following items' "indicator" values are not legitimate.

```
"indicator": "www.example.com",
"tag histories": [
    "intervals": [
     {
       "start": 1402128060000,
       "end": 1417680060000
     },
       "start": 1422128060000,
       "end": 1447680060000
    "category": "Actor",
   "confidence rating": 70,
   "value": "ABC1"
  },
    "intervals": [
       "start": 1469114747000,
       "end": "1534803500"
     }
    "category": "Indicator Category",
   "confidence rating": 80,
    "value": "Targeted"
],
"threat status": "inactive",
"disposition": "MALICIOUS",
"first seen": 1419277223000,
"last seen": 1470847567000,
"tlp": "white",
"family": "domain",
"type": "Domain Name",
"associated items": {
 "urls": [
   "http://example.com/t76f3g",
   "http://www.example.com/t76f3g"
  "infections map": {
   "Ransomware Locky Distribution Site": 34
  "ips": [
   "192.168.1.1"
```



```
]
"threat categories": [
   "threat type": "Credential Harvester",
    "category": "Universal"
    "kill chain": "3",
   "threat type": "Malicious Web Server",
   "category": "Universal"
],
"detail": {
 "country": "united states",
 "ui name": "domains by proxy, llc",
 "org": "domains by proxy, llc",
 "city": "scottsdale",
 "created": 1415810080000,
  "domain": "www.example.com",
  "name": "registration private",
 "geo state": "arizona",
 "ui place": "Scottsdale, Arizona, United States",
 "email": "www.example.com@domainsbyproxy.com"
},
"overall confidence": 70
```

Example Response

/search endpoint results for a malicious file hash

```
{
   "indicator": "7e2561eb67a6ead09f727d98b71c01f18985bbb0",
   "first_seen": 1433810886000,
   "last_seen": 1478200022000,
   "Hash_ImpHash": "8b64d3ea6711c7e0a4e57bd12b350e0e",
"Hash_authentihash":"0a90f9d921b3b645e2f3773583d0029bdc3c81ce9a421244ab0ed9b0a8c42667",
   "type": "Hash_SHA1",
   "Hash_ssdeep":
```



```
"6144:n6H8ZGtTBG+snn8KwrgprThQZsSJ0/pi9:6H8ZGtT0+mn8KygPKsc0o9",
 "disposition": "MALICIOUS",
 "tlp": "white",
 "Hash MD5": "d1c27ee7ce18675974edf42d4eea2506",
 "tag histories": [
     "intervals": [
      {
        "start": 1337347427000,
        "end": "current"
     "category": "Actor",
     "value": "PRK1"
   },
     "intervals": [
        "start": 1337347427000,
        "end": "current"
      ],
      "category": "ThreatType",
      "value": "Dropper"
   },
  ],
 "family": "file",
 "Hash SHA256":
"4d4b17ddbcf4ce397f76cf0a2e230c9d513b23065f740a5ee2de74f447be39b9"
```



Actors API

This service returns overview and summary information of each indicator associated with a known malicious actor. This information is updated twice per hour.

API Endpoints

https://api.area1security.com/actors[?actor=<actor_name>]
https://api.area1security.com/actors?actor=list

API Parameters

- actor_name Limits the response to the Area 1 authored name of an actor
- list Returns a list of Area 1 authored actors names
- *since* show changes in actors since this time. The value can be in iso8601 format (2022-04-24T12:34:56), YYYYMMDD (20220424), epoch seconds (since 1970) or epoch milliseconds (since 1970). If not specified, defaults to the beginning of the current day.
- end end of period for showing changes. The value can be in iso8601 format
 (2022-04-24T12:34:56), YYYYMMDD (20220424), epoch seconds (since 1970) or epoch milliseconds (since 1970). If not specified, defaults to the end of the current day.

Example Request

https://api.area1security.com/actors

(equivalent to https://api.area1security.com/actors?actor=ALL_ACTORS)

https://api.area1security.com/actors?actor=RUS1

https://api.area1security.com/actors?actor=RUS1&since=20221201&end=20221219

https://api.area1security.com/actors?actor=list



List API Response

If the list parameter is set, this API returns a list of Area 1 Security authored actor names.

Example List API Response

```
"data": [
  "CHN6",
  "CHN2",
  "CHN4",
  "CHN5",
  "CHN3",
  "CHN13",
  "CHN1",
  "CHN8",
  "CHN9",
  "CHN24",
  "CHN11",
  "CHN12",
  "RUS1",
  "ALL ACTORS"
]
```

Actor API Response

Returns a list of dictionary items that includes the following key value pairs:

• actor The Area 1 Security authored actor name



data an array of data, one entry per indicator (domain, hash, ip, url) The fields in each data
object are similar to those described above under the Indicator Search API section and so the
descriptions won't be duplicated here.

Example Actor API Response

```
[
 "actor": "XX01",
  "data": [
      "indicator": "web-backend.website.net",
      "tag histories": [
       "intervals": [
           "start": 1475229111000,
           "end": "current"
       ],
        "category": "Actor",
       "confidence rating": 60,
        "value": "XX01"
      },
        "intervals": [
          "start": 1475229111000,
           "end": "current"
        ],
```



```
"category": "Indicator Category",
    "confidence_rating": 60,
    "value": "Targeted"
    }
],
    "first_seen": 1475229111000,
    "last_seen": 1475229111000,
    "type": "Domain_Name",
    "overall_confidence": 60
}
]
```



Anonymity Endpoint API

This service returns information of each indicator associated with known indicators used to try to hide the originator. These could be anonymous mailboxes, anonymous mailers, Tor exit nodes, or VPNs.This information is updated twice per hour.

API Endpoints

https://api.area1security.com/anonymity[/<mailbox|mailer|tor|vpn>][/<active|all>]
https://api.area1security.com/anonymity/tor (defaults to active)

API Parameters

- mailbox/mailer/tor/vpn indicates what specific type of Anonymity indicator is being requested.
 If no type is specified, then all types will be returned.
- active | all the endpoint active or all determines the return of only currently tagged anonymity indicators (the default) or anything that has ever been tagged with Anonymity

Example Request

https://api.area1security.com/anonymity/tor

(equivalent to https://api.area1security.com/anonymity/tor/active)

https://api.area1security.com/anonymity/tor/all

Anonymity API Response

Returns a dictionary that includes the following key value pairs:

data an array of data, one entry per indicator (domain, hash, ip, url) The fields in each data
object are similar to those described above under the Indicator Search API section and so the
descriptions won't be duplicated here.



The example shown below would correspond to a /tor/active endpoint, where the end value for the Tor Exit Node is "current". If the /tor/all endpoint was used, some of the end values could have a numeric timestamp value instead of current.

Example Anonymity API Response

```
"data": [
    "associations": [
        "name": "Private Internet Access (PIA)",
       "type": "Exit Node"
     },
       "name": "swiss.privateinternetaccess.com",
       "type": "Resolves"
     }
    ],
    "first seen": 1443814655000,
    "item name": "179.43.156.194",
    "item type": "IPv4 Address",
    "last seen": 1493814514000,
    "tag histories": [
         "category": "Indicator Rating",
         "intervals": [
                "end": "current",
               "start": 1388527418000
            }
```





Emailalert Endpoint API

This service returns the content of an email given an alert_id from the detection message sent from Area1 (slack, hipchat, email). Users may only retrieve and view emails that are associated with their company (using the API security credentials, usid and password).

API Endpoints

https://api.area1security.com/emailalert?alert=<alert_id>&password=<password>

API Parameters

- alert_id the alert_id from an Area1 detection message
- password if a password is provided, the message will be encrypted in a zip file. Note that you
 must encode and special characters that are part of the password using standard url encoding.

Example Request

https://api.area1security.com/emailalert?alert=3xc7qzabcdxxxx31VJ-2017-08-22T10:09:12
https://api.area1security.com/emailalert?
alert=3xc7qzabcdxxxx31VJ-2017-08-22T10:09:12&password=passwd%20has%20spaces

Emailalert API Response

If a matching email is found for the given alert, the full content of the email will be saved to the user's computer. If the user has the browser configured to automatically save downloads, it will be saved to that directory with the filename *SMTP-alert_id.eml*, or *SMTP-alert_id.zip*, if a password was provided. If downloads are not saved automatically, the "Save File" dialog will be displayed, with the default filename *SMTP-alert_id.eml*.(or .zip).



Alerts Endpoint API

This service returns information of each alert that is generated through the Area 1 Security email product. The same information is available through a push-to-SIEM feature in real time, but this endpoint is provided for users who don't have a SIEM or are unable to open it up to our pushes. All timestamps are in UTC. Items that have no value or are empty will not be displayed (e.g. an email with no attachments will have no attachments item rather than having an attachments item with an empty value).

This endpoint will return up to 5,000 alerts, depending on your email volume and the time range used. If the endpoint returns a 504 Gateway Timeout error, it's likely that it's trying to process and return too much data. In that case it's recommended to provide a limit parameter on the request and use a smaller value than the default of 5,000. Also, the since= and end= parameters may be used to limit the time range.

API Endpoints

https://api.area1security.com/alerts?[disposition=bulk,malicious,suspicious,spam,spoof,all]&[since =iso8601, seconds]&[end=iso8601, seconds]&[limit=]&[page=]

API Parameters

- disposition=malicious, suspicious, spoof, spam, bulk, all indicates what level of alert is being requested. If no type is specified, then only MALICIOUS alerts will be returned.
 Comma-separated values are accepted (e.g disposition=malicious, suspicious). The disposition ALL is equivalent to disposition=malicious, suspicious, spoof, spam.
- since the start of the alert time window. The value can be in iso8601 format (2022-04-24T12:34:56), YYYYMMDD (20220424), epoch seconds (since 1970). If not specified, defaults to the beginning of the current day.
- *end* the end of the alert time window. The value can be in iso8601 format (2022-04-24T12:34:56), YYYYMMDD (20220424), epoch seconds (since 1970). If not specified, defaults to the end of the current day.



- *limit* the maximum number of records to return in the response. The maximum allowed value, and also the default, is 5,000 records. See *page* parameter for more on paging through results.
- page return the next page of results using the token returned by the
 "Next-Page" response header from prior request. Note that alerts for
 messages are typically delayed between 5 and 10 minutes from the time the
 message was processed. When requesting the most recent alerts, using the
 page parameter on the same request may return new messages

Example Request

Retrieve the first 100 alerts since the start of the current day UTC:

https://api.area1security.com/alerts?limit=100

Retrieve the next 100 alerts received since the start of the current day UTC, using the "Next-Page" header value from the previous response:

https://api.area1security.com/alerts?limit=100&page=1auct-hp8d

Retrieve the first 5,000 malicious or suspicious messages since 01:00 UTC on 2022-04-24:

https://api.area1security.com/alerts?disposition=malicious,suspicious&since =2022-04-24T01:00:00

Alerts API Response

Returns a JSON array that includes the following data for each alert as JSON objects:

Example Alerts API Response

Headers:

Next-Page: lauct-hp8d



```
Body:
    "source": "arealsecurity",
    "time": 1524570920,
    "event": {
    "final disposition": "MALICIOUS",
    "delivery mode": "DIRECT",
    "attachments": [
      "sha1": "9817e37aa1e615713e3049979542ca41e2abcb37",
      "sha256":
"e3baa939f091b712bd5d96d2a826c136d969bd9b1b57065febbb7492b1cbef69",
       "content type provided": "image/jpeg",
       "content type computed": "image/jpeg",
       "name": "image003.jpg",
       "ssdeep":
"48:1X6uERAL3EZ+XRjeG7tma95wp5RQf/gMo/SNXI38mfKDNVBLWrQg:19EMg+jeG7TedQfI
MogRxEfLsQg",
       "md5": "965364701f344f098ae913cb59b6aa1c",
      "extension": "jpg",
      "att size": 123456
     }
     "smtp helo server name": "mail.example.net",
     "envelope to": [
     "user@example.com"
     1,
     "subject": "Potential Partnership",
```



```
"smtp helo server ip as name": "LIQUIDWEB - Liquid Web, L.L.C, US",
    "alert reasons": [
      "Malicious previous hop domain server 'mail.example[dot]net'",
      "no really, it's a very mailicious domain 'example[dot]net'"
    ],
    "encrypted feature count": null,
    "message id": "<002001d3db86$7bb1b220$73660$@example.com.ph>",
    "replyto name": null,
    "from name": "Christine",
    "smtp helo server ip": "192.168.1.184",
    "smtp helo server ip geo": "US/-/-",
    "smtp helo server ip as number": "3232235960",
    "envelope from": "christine@example.com.ph",
    "alert id": "40VVylabcbz7pJj-2022-04-24T04:41:19",
    "replyto": "christine@example.com.ph",
    "from": "CEO Christine <christine@example.com.ph>",
    "to": [
      "user@example.com"
    "links": [
     "http://uh-oh.thisisa.com/badlink",
     "http://another-malicious-link.xyz/"
     1,
   "ts": "2022-04-24T04:41:19Z"
... and possibly many more
```

One important value in the result is the *alert_id* field, which can be used with the /emailalerts endpoint to get back to the original email content.



Useractivity Endpoint API

This service returns the API activity data for the logged-in user (customer). It shows all activity against the various API endpoints and the Area 1 customer portal for the requested time range. Default is the current day's activity.

API Endpoints

https://api.area1security.com/useractivity?since=date&end=date

API Parameters

- *since* the start date for the activity request. The value can be in iso8601 format (2022-04-24T12:34:56), YYYYMMDD (20220424), epoch seconds (since 1970) or epoch milliseconds (since 1970). If not specified, defaults to the beginning of the current day.
- end the end date for the activity request. The value can be in iso8601 format (2022-04-24T12:34:56), YYYYMMDD (20220424), epoch seconds (since 1970) or epoch milliseconds (since 1970). If not specified, defaults to the end of the current day.

Example Request

https://api.area1security.com/useractivity (gets activity for today)

https://api.area1security.com/useractivity?since=20220901&end=20220930

Useractivity API Response

```
"since": 1537877401000
    },
    "customer name": "A1S",
    "customer id": "acdadd2e-c63e-11e8-9bd8-5b14f50beb85",
    "s0": "since=1537877401000"
  },
    "created at": 1538482011705,
    "source": "api",
    "action": "alerts",
    "attributes": {
      "disposition": "(MALICIOUS|SUSPICIOUS|SPOOF|SPAM)",
      "end": 1538480204000,
      "since": 1538479304000
    },
    "customer name": "A1S",
    "customer id": "acdadd2e-c63e-11e8-9bd8-5b14f50beb85"
  },
    "created at": 1538481112544,
    "source": "api",
    "action": "search",
    "query": "www.example.com",
    "customer name": "A1S",
    "customer id": "acdadd2e-c63e-11e8-9bd8-5b14f50beb85"
]
```



Domainproximity Endpoint API

This service returns information on domains that are similar to domains registered with Area 1 Security for the logged-in user (customer). Several different algorithms are used to determine the similarity compared to newly registered domains in WHOIS data.

API Endpoints

https://api.area1security.com/domainproximity?distance=value

API Parameters

 distance show similar domains less than or equal to this value, according to the edit distance measure. Value is in the range 1-3, with a default of 3 if not specified.

Example Request

https://api.area1security.com/domainproximity (gets all similar domains)

https://api.area1security.com/domainproximity?distance=1

Response

Returns information that we know about the indicator, including:

- domain the reference domain that's being compared
- **imp_domain -** the newly registered impostor domain to be compared to the reference domain.
- **reg_dt** the registration date of the (potential impostor) domain.
- edit_dist The (modified) Levenshtein distance (number of additions/subtractions/substitutions) between the reference domain and the potential impostor domain (the distance parameter).
- **norm_dist** The Levenshtein distance normalized by the character length of the domain.



Domainproximity API Response

```
"domain": "arealsecurity.com",
"data": [
   {
    "reg dt": "2018-11-23T00:00:00Z",
    "norm dist": 0.2,
    "edit dist": 3,
    "imp domain": "ar-security.com"
    "reg dt": "2018-05-13T00:00:00Z",
    "norm dist": 0.0666666666666667,
    "edit dist": 1,
    "imp domain": "areassecurity.com"
    },
    "reg dt": "2018-02-13T00:00:00Z",
    "norm dist": 0.133333333333333,
    "edit dist": 2,
    "imp domain": "arsalsecurity.com"
]
```



Detections Search Endpoint API

This service returns information for each email that matches the search parameter(s). Only emails that have a detection (final_disposition of SPOOF, SPAM, SUSPICIOUS, MALICIOUS-BEC or MALICIOUS) will be searched. The content of the following email metadata fields are searched:

- alert_id
- CC
- From (envelope_from)
- From Name
- final_disposition
- md5 hash (of any attachment)
- sha1 hash (of any attachment)
- sha256 hash (of any attachment)
- name (of any attachment)
- Reason
- Received DateTime (yyyy-mm-ddThh:mm:ss)
- Sent DateTime (yyyy-mm-ddThh:mm:ss)
- ReplyTo
- To (envelope_to)
- To Name
- Message-ID
- smtp_helo_server_ip
- smtp_previous_hop_ip
- x_originating_ip
- Subject

API Endpoints

https://api.area1security.com/detections-search



API Parameters

- query space delimited query term(s) [Required] case-insensitive, multiple words must be separated by spaces (spaces url-encoded as "%20" or "+")
- days_back how far back to begin the search (default is 7, max is 365)
- *limit* how many results to return (default is 100, max is 1000)

Example Request

https://api.area1security.com/detections-search?query=malicious

https://api.area1security.com/detections-search?query=malicious&days_back=3

https://api.area1security.com/detections-search?query=bob+jones

Response

Returns a JSON object containing metadata fields from emails that matched the query.

- data list containing each of the search results
- query_time: the time in epoch milliseconds UTC

Detections Search API Response

```
{
      "reason": "IP is a source of spam/uce :
Smtp-Helo-Server-Ip='127.0.0[dot]186'",
      "score": null,
      "detection": "SPAM",
      "field": "smtp helo server ip",
      "attachment": null,
      "portion": "SMTP",
      "name": "blocklist",
      "action": "PROMOTE",
      "detail": null,
      "diagnostic": "",
      "value": "127.0.0.186",
      "version": null
       }
      ],
      "sent date": "2019-11-21T00:22:01",
      "detectionReasons": [
         "IP is a source of spam/uce :
Smtp-Helo-Server-Ip=<b>127.0.0[dot]186</b>"
      ],
      "client uuid": "abcdef12-3456-7890-abcd-ef1234567896",
      "from name": null,
      "smtp helo server ip": "127.0.0.186",
      "smtp previous hop ip": "127.0.0.186",
      "envelope from": "d1994@example.com",
      "replyto": "d1994@example.com",
      "from": "d1994@example.com",
      "to": [
          "email@arealsecurity.com"
      ],
```



```
"threat_cats_blocking": [
    "IdentityDeception",
    "BrandImpersonation",
    "CredentialHarvester",
    "Link"

],
    "client_name": "area1",
    "postfix_ident": "47JJcTlw6GztQV7",
    "ts": "2019-11-20T23:22:01"
    }
],
    "query_time": 1574294490485
}
```



Mailtrace Endpoint API

This service returns information for each email that matches the search parameter(s). All email can be searched, whether it registered a detection or not. Only certain fields from the email will be searched.

- alert_id (as parameter alertId)
- **from** (email from address as parameter *sender*)
- message_id (as parameter messageId)
- **subject** (any words, as parameter *subject*)
- to (email to address as parameter recipient)

API Endpoints

https://api.area1security.com/mailtrace

API Parameters

- subject space delimited word(s) from the email subject, case-insensitive, multiple words must be separated by spaces
- alertId the full alert_id field (only present for emails with a final_disposition of SPOOF, SPAM, SUSPICIOUS, MALICIOUS-BEC, or MALICIOUS)
- messageId the full messageid of the email
- recipient any "To" address of the email
- sender the "From" address of the email
- since the start time of the search window. The value can be in iso8601 format
 (2018-04-24T12:34:56), epoch seconds, epoch milliseconds, or YYYYMMDD (default is 7 days
 ago)
- *end* the end time of the search window. The value can be in iso8601 format (2018-04-24T12:34:56), epoch seconds, epoch milliseconds, or YYYYMMDD (default is the current time)
- limit how many results to return (default is 100, max is 1000)



Example Requests

https://api.area1security.com/mailtrace?alertid=43pVC02YH1zHQN4-2019-01-29T02:03:09

https://api.area1security.com/mailtrace?alertid=43pVC02YH1zHQN4-2019-01-29T02:03:09&since =20191101

https://api.area1security.com/mailtrace?subject=lost+found

Response

Returns a JSON object containing metadata fields from emails that matched the query.

- data list containing each of the search results
- query_time: the time in epoch milliseconds UTC

Detections Search API Response



}



Preview Endpoint API

This service returns the content of an email rendered as a PNG image given an alert_id from the detection message sent from Area1 (slack, email). Users may only retrieve and view emails that are associated with their company (using the API security credentials, usid and password).

API Endpoints

https://api.area1security.com/preview?alert=<alert_id>

API Parameters

• alert_id the alert_id from an Area1 detection message

Example Request

https://api.area1security.com/preview?alert=3xc7qzabcdxxxx31VJ-2017-08-22T10:09:12

Preview API Response

If a matching email is found for the given alert, the body of the email will be converted to a PNG image, which will be displayed directly in the browser, or can be redirected to a file (if accessing the API with a script or curl).



Analyze SPF Endpoint API

This endpoint analyzes the SPF record for the given domain and returns the results.

Note: This is a public endpoint (no authorization credentials needed to use it).

API Endpoints

https://api.area1security.com/pub/analyzespf/<domain><?ip=ipaddress>

API Parameters

- domain the domain name to be analyzed (required)
- ip analyze the SPF policy record for the provided domain given this originating IP address

Example Request

https://api.area1security.com/pub/analyzespf/area1security.com

Analyze SPF API Response

This shows the result for a valid SPF record.



```
"hostname": "example.com",
          "record": "v=spf1 include:spf.mandrillapp.com
include:et. spf.pardot.com include:mail.zendesk.com include:es. spf.adp.com
include: spf.salesforce.com include:spf.protection.outlook.com
a:rpc.boldchat.com -all"
        },
          "hostname": "spf.mandrillapp.com",
          "record": "v=spf1 ip4:198.2.128.0/24 ip4:198.2.132.0/22
ip4:198.2.136.0/23 ip4:198.2.145.0/24 ip4:198.2.186.0/23
ip4:205.201.131.128/25 ip4:205.201.134.128/25 ip4:205.201.136.0/23
ip4:205.201.139.0/24 ip4:198.2.177.0/24 ip4:198.2.178.0/23 ip4:198.2.180.0/24
~all"
       },
          "hostname": "et. spf.pardot.com",
          "record": "v=spf1 ip4:198.245.81.0/24 ip4:136.147.176.0/24
ip4:13.111.0.0/22 ip4:13.111.52.0/22 ip4:13.111.63.0/24 ip4:13.111.68.0/24
ip4:13.111.72.0/22 ip4:13.111.92.0/24 ip4:13.111.111.0/24 ip4:136.147.182.0/24
ip4:136.147.135.0/24 ip4:199.122.123.0/24 -all"
       },
          "hostname": "mail.zendesk.com",
          "record": "v=spf1 ip4:103.151.192.0/23 ip4:185.12.80.0/22
ip4:188.172.128.0/20 ip4:192.161.144.0/20 ip4:216.198.0.0/18 ~all"
        },
          "hostname": "es. spf.adp.com",
          "record": "v=spf1 ip4:170.146.220.0/24 ip4:170.146.221.0/24
ip4:170.146.224.15 ip4:170.146.224.16/31 ip4:170.146.226.15
ip4:170.146.226.16/31 -all"
```

```
},
          "hostname": " spf.salesforce.com",
         "record": "v=spf1 exists:%{i}. spf.mta.salesforce.com -all"
       },
          "hostname": "spf.protection.outlook.com",
          "record": "v=spf1 ip4:40.92.0.0/15 ip4:40.107.0.0/16
ip4:52.100.0.0/14 ip4:104.47.0.0/17 ip6:2a01:111:f400::/48
ip6:2a01:111:f403::/48 include:spfd.protection.outlook.com -all"
       },
        {
          "hostname": "spfd.protection.outlook.com",
          "record": "v=spf1 ip4:51.4.72.0/24 ip4:51.5.72.0/24 ip4:51.5.80.0/27
ip4:20.47.149.138/32 ip4:51.4.80.0/27 ip6:2a01:4180:4051:0800::/64
ip6:2a01:4180:4050:0800::/64 ip6:2a01:4180:4051:0400::/64
ip6:2a01:4180:4050:0400::/64 -all"
      "domain": "example.com",
      "dns lookups": [
       {
          "primary spf include": false,
         "hostname": "example.com",
         "record type": "TXT"
        },
          "primary spf include": true,
          "hostname": "spf.mandrillapp.com",
         "record type": "TXT"
       },
```

```
"primary spf include": true,
 "hostname": "et. spf.pardot.com",
 "record type": "TXT"
},
 "primary spf include": true,
 "hostname": "mail.zendesk.com",
 "record type": "TXT"
},
  "primary spf include": true,
 "hostname": "es. spf.adp.com",
  "record type": "TXT"
},
 "primary spf include": true,
  "hostname": " spf.salesforce.com",
  "record type": "TXT"
},
 "primary spf include": false,
 "hostname": "0.0.0.0. spf.mta.salesforce.com",
 "record type": "A"
},
 "primary spf include": true,
 "hostname": "spf.protection.outlook.com",
  "record type": "TXT"
},
```





And this is the result for an invalid SPF record.

```
"data": [
     "result": "permerror",
     "reason": "Maximum (10) mechanism/modifiers calls done: 12",
     "policy record": "v=spf1 include: spf.google.com
include: spfprod.badexample2.com include:servers.mcsv.net
include:bounce.badexample3.com include: spf.intacct.com
include:helpscoutemail.com ~all",
     "spf records": [
          "hostname": "badexample.com",
          "record": "v=spf1 include: spf.google.com
include: spfprod.badexample2.com include:servers.mcsv.net
include:bounce.badexample3.com include: spf.intacct.com
include:helpscoutemail.com ~all"
        },
          "hostname": " spf.google.com",
          "record": "v=spf1 include: netblocks.google.com
include: netblocks2.google.com include: netblocks3.google.com ~all"
       },
          "hostname": " netblocks.google.com",
          "record": "v=spf1 ip4:35.190.247.0/24 ip4:64.233.160.0/19
ip4:66.102.0.0/20 ip4:66.249.80.0/20 ip4:72.14.192.0/18 ip4:74.125.0.0/16
ip4:108.177.8.0/21 ip4:173.194.0.0/16 ip4:209.85.128.0/17 ip4:216.58.192.0/19
ip4:216.239.32.0/19 ~all"
       },
```



```
{
          "hostname": " netblocks2.google.com",
          "record": "v=spf1 ip6:2001:4860:4000::/36 ip6:2404:6800:4000::/36
ip6:2607:f8b0:4000::/36 ip6:2800:3f0:4000::/36 ip6:2a00:1450:4000::/36
ip6:2c0f:fb50:4000::/36 ~all"
        },
          "hostname": " netblocks3.google.com",
          "record": "v=spf1 ip4:172.217.0.0/19 ip4:172.217.32.0/20
ip4:172.217.128.0/19 ip4:172.217.160.0/20 ip4:172.217.192.0/19
ip4:172.253.56.0/21 ip4:172.253.112.0/20 ip4:108.177.96.0/19 ip4:35.191.0.0/16
ip4:130.211.0.0/22 ~all"
       },
          "hostname": " spfprod.badexample3.com",
          "record": "v=spf1 ip4:161.199.13.0/24 ip4:192.133.16.0/24
ip4:192.82.209.0/24 ip4:161.199.112.0/24 ip4:74.121.196.224/27
ip4:162.249.108.96/28 ip4:38.111.1.0/24 ip4:65.144.119.0/24 ip4:146.20.113.101
ip4:146.20.113.144 ip4:146.20.113.217 ip4:156.70.24.139 ip4:156.70.25.163
~all"
       },
          "hostname": "servers.mcsv.net",
          "record": "v=spf1 ip4:205.201.128.0/20 ip4:198.2.128.0/18
ip4:148.105.8.0/21 -all"
        },
          "hostname": "bounce.badexample2.com",
          "record": "v=spf1 a ip4:64.94.250.0/25 ip4:66.151.182.16/28
ip4:66.151.230.128/25 ip4:69.25.74.128/26 ip4:69.25.201.128/25
ip4:69.25.202.64/26 ip4:69.25.243.160/27 ip4:70.42.50.128/26 ip4:70.42.57.0/25
```



```
ip4:63.251.142.0/24 ip4:38.97.115.0/24 ip4:161.199.13.0/24
include:sp.actionkit.com -all"
       },
          "hostname": "sp.actionkit.com",
         "record": "v=spf1 exists:%{i}. spf.sparkpostmail.com ~all"
       },
          "hostname": " spf.intacct.com",
          "record": "v=spf1 ip4:4.7.16.128/26 ip4:38.108.186.0/24
ip4:199.87.209.0/24 ip4:4.53.200.128/26 ip4:52.62.199.66 ip4:52.19.0.156
ip4:3.97.56.230 ip4:18.233.211.170 ?all"
       },
          "hostname": "helpscoutemail.com",
          "record": "v=spf1 ip4:54.173.229.38 ip4:52.0.20.102
ip4:54.174.116.32 ip4:52.2.238.96 ip4:52.20.146.34 ip4:34.198.122.65 ~all"
      "domain": "badexample.com",
      "dns lookups": [
       {
          "primary spf include": false,
         "hostname": "badexample.com",
         "record type": "TXT"
        },
          "primary spf include": true,
          "hostname": " spf.google.com",
         "record type": "TXT"
       },
```

```
"primary spf include": false,
 "hostname": " netblocks.google.com",
 "record type": "TXT"
},
  "primary spf include": false,
  "hostname": " netblocks2.google.com",
 "record type": "TXT"
},
  "primary spf include": false,
 "hostname": " netblocks3.google.com",
  "record type": "TXT"
},
 "primary spf include": true,
  "hostname": " spfprod.ngpvan.com",
  "record type": "TXT"
},
 "primary spf include": true,
 "hostname": "servers.mcsv.net",
 "record type": "TXT"
},
 "primary spf include": true,
 "hostname": "bounce.badexample2.com",
  "record type": "TXT"
},
```

```
"primary spf include": false,
        "hostname": "bounce.badexample2.com",
        "record type": "A"
      },
        "primary spf include": false,
        "hostname": "sp.actionkit.com",
        "record type": "TXT"
      },
        "primary spf include": false,
        "hostname": "<ip>. spf.sparkpostmail.com",
        "record type": "A"
      },
       "primary spf include": true,
        "hostname": " spf.intacct.com",
        "record type": "TXT"
      },
        "primary_spf_include": true,
        "hostname": "helpscoutemail.com",
        "record type": "TXT"
],
"ts": 1631729251
```



System Status Endpoint API

This endpoint returns the status of many Area 1 systems. The results are updated every 5 minutes, so there's no need to access the endpoints any more often than that.

API Endpoints

https://api.area1security.com/status</service>

API Parameters

- service if present, the Area 1 system to check the status of. If not specified, then the status of all systems will be returned.
- Valid values for "service" are "api", "dns", "email", "portal".

Example Request

https://api.area1security.com/status - returns status of all systems

https://api.area1security.com/status/email - returns the status of the email system

System Status API Response

This shows the result for a request for ALL systems. Subsystem requests show only the respective part of the ALL result.

"last_updated" indicates when our system last checked the status of the others

"status_last_changed" is the timestamp of the last system update (usually indicating the time an outage began or ended)

```
{
  "last_updated": "2021-09-29T18:35:01Z",
  "data": [
```



```
"name": "Email Protection Service",
   "description": "Cloud Anti-Phishing MTA",
    "status": "operational",
    "status last changed": "2021-08-31T21:27:36.207Z"
  },
   "name": "Recursive DNS Service",
    "description": "Cloud Anti-Phishing DNS Resolver",
    "status": "operational",
    "status last changed": "2021-09-27T17:00:51.990Z"
  },
   "name": "API",
    "description": "API service accessing Area 1 data",
    "status": "operational",
   "status last changed": "2020-11-21T06:00:36.101Z"
  },
   "name": "Customer Portal",
    "description": "Management Portal",
    "status": "operational",
   "status last changed": "2021-05-20T20:54:37.949Z"
"ts": 1632940553
```



Customer Reports Endpoint API

This endpoint returns customer-specific reports saved and maintained in one of our internal security system.

API Endpoints

https://api.area1security.com/customerreports

Example Request

https://api.area1security.com/customerreports - returns all reports for this customer

System Status API Response



```
compromised at this time.\n\n## Targets and Victimology\n* Area 1 Target:
goat@arealsecurity.com\n\n## Details\n* Delivery Disposition: SPAM\n* Current
Disposition: MALICIOUS\n* Area 1 - Alert ID:
4CbnQX52XTztQVB-2020-11-18T15:53:08\n* Message-ID:
<20201118155306[.]7ECCB27C5E@localhost>\n* Timestamp: 2020-11-18T15:53:08Z\n*
Subject: This is a BEC Type 4 Test Email\n* Attempted Fraudulent Amount:
N/A\n\n### Indicators of Compromise (IOC)\n* badguy@example[.]com - MALICIOUS
Email Account - This account has been automatically marked by Area 1 Security
as MALICIOUS for a period of 2 years.\n* example[.]com - MALICIOUS Domain Name
- This account has been automatically marked by Area 1 Security as MALICIOUS
for a period of 2 years.\n\n## References\n### Follow Up Actions\nNOTE: In
order to further train our models to detect these attacks faster, please
locate all original emails from this attack and send them as EML files to our
automated Phish Submission System areal@arealreports.com.",
      "tags": [
      "category": "ThreatType",
      "value": "BEC Type 3"
      },
      "category": "ThreatType",
      "value": "BEC"
      },
      "category": "ThreatType",
      "value": "Identity Deception"
      },
      "category": "ThreatType",
      "value": "Domain Impersonation"
```





MailConfig Allowlist Endpoint API

This endpoint returns the various Allowlist items that can be configured for the Area 1 Email Protection Service through the Area 1 Portal (Settings|Allow List|Allowed Patterns). Trusted Senders, Exempt Recipients, and Acceptable Senders will be exempted from normal detection scanning.

API Endpoints

https://api.area1security.com/allowlists</(acceptablesenders/exemptrecipients/trustedsenders)

API Parameters

 acceptablesenders/exemptrecipients/trustedsenders if present, only that subset of the Allowlists will be returned.

Example Request

https://api.area1security.com/allowlists - returns all configured allowlists

https://api.area1security.com/allowlists/trustedsenders - returns only the trustedsenders data

MailConfig Allowlist API Response

This shows the result for a request for ALL allowlists. Some entries may show up in multiple sub-lists (e.g. trustedsenders and exemptrecipients)

```
"comments": "email with whitespace",
    "is regex": true,
    "pattern": "fred\\ bloggs@example.com",
    "created at": "Thu, 06 Aug 2020 21:52:02 GMT",
    "is spoof": true,
    "id": 27352,
    "last modified": "Fri, 04 Dec 2020 18:56:55 GMT",
    "sender verification": true,
   "is recipient": true
 }
],
"exempt recipients": [
    "is sender": true,
    "comments": "email with whitespace",
    "is regex": true,
    "pattern": "fred\\ bloggs@example.com",
    "created at": "Thu, 06 Aug 2020 21:52:02 GMT",
    "is spoof": true,
    "id": 27352,
    "last modified": "Fri, 04 Dec 2020 18:56:55 GMT",
    "sender verification": true,
   "is recipient": true
"trusted senders": [
    "is sender": true,
    "comments": "IP regex",
    "is regex": true,
    "pattern": "147\\.160\\.167\\.([0-9]|[1-5][0-9]|6[0-3])",
```



```
"created_at": "Tue, 27 Oct 2020 23:20:59 GMT",
    "is_spoof": false,
    "id": 27401,
    "last_modified": "Mon, 30 Nov 2020 19:06:43 GMT",
    "sender verification": true,
    "is_recipient": false
    }
}
```

The data returned for one of the sub-items looks similar to the above, but it only contains the data for the specific request (e.g. /allowlists/trustedsenders returns only the trusted_senders array).

Creating New Allowlist Items

New Allowlist items can be created by sending a properly-formatted JSON body as a POST request to these same endpoints.

curl -u service_account_id:private_key -X POST --data-binary '@/tmp/post.json' https://api.area1security.com/allowlists</acceptablesenders|exemptrecipients|trustedsenders>

Where the file /tmp/post.json contains json in this format (pattern represents an email address or a domain and can be a fixed string or a regular expression).



```
}
]
}
```

The API return data from that POST, assuming success, will look like this

```
"blackbox": {
  "data": {
    "failures": [],
    "whitelists": {
    "num pages": 10,
    "rows": [
            "is sender": true,
            "comments": "added by API",
            "is similarity": false,
            "is regex": false,
            "pattern": "required-with-default-comments@example.com",
            "created at": "Thu, 10 Feb 2022 14:50:22 GMT",
            "deleted at": "Thu, 01 Jan 1970 00:00:00 GMT",
            "verify sender": true,
            "is spoof": true,
            "id": 27571,
            "customer id": "1b8183fa-15cd-471b-90bb-68fffb575d6f",
            "last modified": "Thu, 10 Feb 2022 14:50:22 GMT",
            "is recent": false,
            "is recipient": true
    },
    {
```



```
"is sender": true,
            "comments": "optional, but helpful",
            "is similarity": false,
            "is regex": true,
            "pattern": "required[0-9]{3}@example.com",
            "created at": "Thu, 10 Feb 2022 14:50:22 GMT",
            "deleted at": "Thu, 01 Jan 1970 00:00:00 GMT",
            "verify sender": true,
            "is spoof": true,
            "id": 27570,
            "customer id": "1b8183fa-15cd-471b-90bb-68fffb575d6f",
            "last modified": "Thu, 10 Feb 2022 14:50:22 GMT",
            "is recent": false,
            "is recipient": true
   }
     1
     }
    },
    "success": true
},
"status": 200
```

Deleting Allowlist Items

Allowlist items can be deleted by using the DELETE endpoint with the id that is to be deleted. The id can be obtained from either a GET request or the original POST return that created the item.

curl -u service_account_id:private_key -X DELETE https://api.area1security.com/allowlists/<id>



MailConfig Blocklist Endpoint API

This endpoint returns the various Blocklist items that can be configured for the Area 1 Email Protection Service through the Area 1 Portal (Settings/Block List/Blocked Senders).

API Endpoints

https://api.area1security.com/blocklists

Example Request

https://api.area1security.com/blocklists - returns all configured blocklists

MailConfig Blocklist API Response

This shows the result for a request for all blocklists.



```
"created_at": "Wed, 07 Oct 2020 17:29:39 GMT",
    "id": 47620930942,
    "last_modified": "Wed, 07 Oct 2020 22:59:03 GMT"
}
```

Creating New Blocklist Items

New Blocklist items can be created by sending a properly-formatted JSON body as a POST request to the blocklists endpoint.

curl -u service_account_id:private_key -X POST --data-binary '@/tmp/post.json' https://api.area1security.com/blocklists

Where the file /tmp/post.json contains json in this format (pattern represents an email address and can be a fixed string or a regular expression):



The API return data from that POST, assuming success, will look like this

```
"blackbox": {
    "data": {
        "failures": [],
        "blacklists": [
        "comments": "added by API",
        "is regex": false,
        "pattern": "blockme@example.com",
        "created at": "Fri, 11 Feb 2022 18:06:40 GMT",
        "id": 15330,
        "customer id": "1b8183fa-15cd-471b-90bb-68fffb575d6f",
        "deleted at": "Thu, 01 Jan 1970 00:00:00 GMT",
        "last modified": "Fri, 11 Feb 2022 18:06:40 GMT"
            },
        "comments": "optional, but helpful",
        "is regex": true,
        "pattern": "required. {0,10}@example.com",
        "created at": "Fri, 11 Feb 2022 18:06:40 GMT",
        "id": 15329,
        "customer id": "1b8183fa-15cd-471b-90bb-68fffb575d6f",
        "deleted at": "Thu, 01 Jan 1970 00:00:00 GMT",
        "last modified": "Fri, 11 Feb 2022 18:06:40 GMT"
        1
    },
    "success": true
},
"status": 200
```



}

Deleting Blocklist Items

Blocklist items can be deleted by using the DELETE endpoint with the id that is to be deleted. The id can be obtained from either a GET request or the original POST return that created the item.

curl -u service_account_id:private_key -X DELETE https://api.area1security.com/blocklists/<id>



MailConfig Domains Endpoint API

This endpoint returns information about customer domains that are configured for the Area 1 Email Protection Service through the Area 1 Portal (Config|Domains & Routing|Domains).

API Endpoints

https://api.area1security.com/domains

Example Request

https://api.area1security.com/domains - returns all configured domain information

MailConfig Domains API Response

This shows the result for a request for all configured domains.



```
"domain": "a1s4example.com",
    "id": 1559,
    "lookback_hops": 1,
    "transport": "example.com"
    }
],
    "success": true,
    "ts": 1639515997
}
```

Creating New Domain Items

New Domains can be created by sending a properly-formatted JSON body as a POST request to the domains endpoint.

curl -u service_account_id:private_key -X POST --data-binary '@/tmp/post.json' https://api.area1security.com/domains

Where the file /tmp/post.json contains json in this format (using all defaults):

The API return data from that POST, assuming success, will look like this

```
"blackbox": {
    "data": {
        "failures": [],
        "blacklists": [
        "proxy port": -1,
              "require tls inbound": false,
              "comments": null,
              "require tls": false,
              "is primary": false,
              "drop dispositions": "{MALICIOUS, MALICIOUS-BEC, SPAM}",
              "created at": "Fri, 25 Feb 2022 20:59:18 GMT",
              "transport": null,
              "deleted at": "Thu, 01 Jan 1970 00:00:00 GMT",
              "reject type": "HARD",
              "require tls outbound": false,
              "dmarc enforcement": "PROMOTE",
              "domain": "example.com",
              "id": 1576,
              "lookback hops": 1,
              "customer id": "1b8183fa-15cd-471b-90bb-68fffb575d6f",
              "o365 tenant id": null,
              "dmarc report enabled": true,
              "last modified": "Fri, 25 Feb 2022 20:59:18 GMT"
        ]
    },
    "success": true
```



```
},
"status": 200
}
```

POST json file overriding default values:

```
"require_tls_outbound": true,
  "require_tls_inbound": true,
  "drop_dispositions": "{MALICIOUS, SPAM}",
  "domain": "example.com",
  "lookback_hops": 1,
  "transport": "google.com"
}
```

Deleting Domain Items

Domain items can be deleted by using the DELETE endpoint with the id that is to be deleted. The id can be obtained from either a GET request or the original POST return that created the item.

curl -u service_account_id:private_key -X DELETE https://api.area1security.com/domains/<id>



MailConfig Domain Restrictions Endpoint API

This endpoint returns information about customer domain restrictions that are configured for the Area 1 Email Protection Service through the Area 1 Portal.

API Endpoints

https://api.area1security.com/domainrestrictions

Example Request

https://api.area1security.com/domainrestrictions - returns all configured domain restriction information

MailConfig Domain Restrictions API Response

This shows the result for a request for all configured domain restrictions.



```
} ,
        "domain id": 1559,
        "domain": "als4example.com",
        "restrictions": [
          "comments": "testing",
          "range": "192.168.61.3/32",
          "created at": "Tue, 09 Nov 2021 21:15:26 GMT",
          "id": 7631,
          "last modified": "Thu, 18 Nov 2021 16:19:18 GMT"
          },
        "comments": "added by API",
        "range": "192.168.51.3/32",
        "created at": "Tue, 09 Nov 2021 20:54:36 GMT",
        "id": 7630,
        "last modified": "Tue, 09 Nov 2021 20:54:36 GMT"
      ]
],
"ts": 1639517839
```

Note that the domain restrictions are associated with the customer's configured domains, and that there can be multiple restrictions on any domain.

Creating New Domain Restrictions

New Blocklist items can be created by sending a properly-formatted JSON body as a POST request to the domainrestrictions endpoint.



curl -u service_account_id:private_key -X POST --data-binary '@/tmp/post.json' https://api.area1security.com/domainrestrictions

Where the file /tmp/post.json contains json in this format. domain_id can be obtained from the /domains endpoint, and is the domain that you want to apply the restriction to. range is a CIDR addresses indicating the IP(s) that should not be allowed to connect to that domain. The POST can contain multiple entries as shown here:

The API return data from that POST, consisting of success and failure for each entry, will look like this, with two successes and one failure (non-existent *domain_id*):

```
{
```



```
"fail": [],
 "data": [
 "error": "insert or update on table \"customer domain restrictions\"
violates foreign key constraint
\"customer domain restrictions domain id fkey\"\nDETAIL: Key
(domain id) = (999999) is not present in table \"customer domains\".\n"
},
{
    "domain id": 1560,
        "comments": "added by API",
         "created at": "Fri, 25 Mar 2022 18:52:47 GMT",
         "range": "192.168.5.5/32",
         "id": 7656,
         "deleted at": "Thu, 01 Jan 1970 00:00:00 GMT",
         "last modified": "Fri, 25 Mar 2022 18:52:47 GMT"
},
         "domain id": 1560,
         "comments": "not required, but helpful",
         "created at": "Fri, 25 Mar 2022 18:52:47 GMT",
         "range": "192.168.6.6/32",
         "id": 7657,
         "deleted at": "Thu, 01 Jan 1970 00:00:00 GMT",
         "last modified": "Fri, 25 Mar 2022 18:52:47 GMT"
}
1,
"success": [
"http://localhost:8080/domainrestrictions/7656",
"http://localhost:8080/domainrestrictions/7657"
],
```



```
"status": 201
}
```

Deleting Domain Restriction

Domain Restrictions can be deleted by using the DELETE endpoint with the id that is to be deleted. The id can be obtained from either a GET request or the original POST return that created the item.

curl -u service_account_id:private_key -X DELETE
https://api.area1security.com/domain_restrictions/<id>



MailConfig BEC Endpoint API

This endpoint can return or update information about BEC (Business Email Compromise) that is configured for the Area 1 Email Protection Service through the Area 1 Portal.

API Endpoints

https://api.area1security.com/bec

Example Request

https://api.area1security.com/bec - returns all configured BEC information

MailConfig BEC API Response

This shows the result for a request for all configured BEC entries.



Creating New BEC Items

New BEC items can be created by sending a properly-formatted JSON body as a POST request to the BEC endpoint.

curl -u service_account_id:private_key -X POST --data-binary '@/tmp/post.json' https://api.area1security.com/bec

Where the file /tmp/post.json contains json in this format (pattern represents an email address and can be a fixed string or a regular expression):



```
}

1
}
```

The API return data from that POST, assuming success, will look like this

```
"blackbox": {
   "data": {
        "failures": [],
        "display names": {
            "num pages": null,
            "rows": [
                  "levenshtein distance": 1,
                  "comments": "optional, but helpful",
                  "is email regex": false,
                  "provenance": "A1S INTERNAL",
                  "name": "Tim Required",
                  "created at": "Fri, 11 Mar 2022 14:54:52 GMT",
                  "jarowinkler distance": 0.98,
                  "id": 6979393,
                  "customer id": "1b8183fa-15cd-471b-90bb-68fffb575d6f",
                  "deleted at": "Thu, 01 Jan 1970 00:00:00 GMT",
                  "last modified": "Fri, 11 Mar 2022 14:54:52 GMT",
                  "email": "required@example.com"
        },
                  "levenshtein distance": 1,
                  "comments": "added by API",
```



Deleting BEC Items

BEC items can be deleted by using the DELETE endpoint with the id that is to be deleted. The id can be obtained from either a GET request or the original POST return that created the item.

curl -u service_account_id:private_key -X DELETE https://api.area1security.com/bec/<id>