Seqrite Threat Feed
User Guide
Version 1.0

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## Introduction

Threat intelligence feeds provide automated streams of useful threat information that enterprises can ingest into their security tools and platforms to block threats or derive helpful insights. This information includes traditional indicators of compromise (IoCs) such as malicious Domains, URLs, IP addresses, Malware hashes, and more.

Seqrite Labs is processing and detecting millions of threats every day. Information related to threats are messaged and put together in STIX format and delivered to customers via TAXII server. The following page details how you can obtain Cyber Threat Intelligence (CTI) using the Trusted Automated Exchange of Intelligence Information (TAXII) services.

#### What is STIX?

- Structured Threat Information expression or STIX, is a language format used to exchange CTI
  (Cyber Threat Intelligence). The STIX format is used to show information related to indicator
  objects, malware objects and relationship objects. Relationship objects link a common
  association between indicator and malware objects.
- The STIX feed is in a standardized JSON format and conveys CTI data that can be easily understood. It represents the common language where both entities, client, and server, can use STIX for a common method of communication.

#### What is TAXII?

- Trusted Automated Exchange of Intelligence Information or **TAXII**, is a transport protocol used to exchange CTI data over Hyper Text Transfer Protocol Secure (HTTPS).
- TAXII enables companies like Seqrite, to share CTI with other users by defining an API that aligns with common sharing models.
- TAXII is specifically designed to support the exchange of CTI represented in STIX format.

#### The TAXII and STIX Relationship

- The open-source projects of TAXII and STIX standards were developed by the **OASIS CTI Technical Committee** for the prevention and mitigation of cyber-attacks. STIX indicates the cyber threat intelligence data and TAXII is the vehicle for the exchange of that information.
- TAXII is the mechanism for transport of CTI represented in STIX format. You can use TAXII services to share cyber threat information in a secure and automated manner.

# Relationship between Feeds and Collections

- As mentioned, STIX provides CTI data Feeds in JSON format. Feeds contain CTI data from Collections.
- A TAXII Collection is an interface to a database of CTI objects provided by a TAXII Server. It is used by TAXII Clients to request information from the TAXII Server.
- It is common to use the term Feeds when referring to STIX CTI threat data with the understanding that what comprises a CTI Feed is information from a Collection of CTI objects.

### Feeds and Collection available from Segrite Threat Feed

Collection ID	Collection	Description
	Title	
b5a0bc3a-aad6-11ee-	Malicious File	This collection contains malwares hashes which are
807a-325096b39f47		currently active in-field.
b5a0be38-aad6-11ee-	Malicious IP	This collection contains IPs being used for
b32a-325096b39f47	(India Specific)	performing malicious activities primarily on Indian territory.
b5a0bea6-aad6-11ee-	Malicious IP	This collection contains IPs being used for malicious
8215-325096b39f47	(Zero Day)	activities but seen by Seqrite Labs for the first time.
b5a0bfd2-aad6-11ee-	Malicious IP	This collection contains IPs being used for malicious
b815-325096b39f47	(Global Threats)	activities across the globe.
b5a0c018-aad6-11ee-	Malicious	This collection contains Domains being used for
af09-325096b39f47	Domain (India	performing malicious activities primarily on Indian
	Specific)	territory.
b5a0c072-aad6-11ee-	Malicious	This collection contains Domains being used for
8131-325096b39f47	Domain (Zero	malicious activities but seen by Seqrite Labs for the
	Day)	first time.
b5a0c0e0-aad6-11ee-	Malicious	This collection contains Domains being used for
a233-325096b39f47	Domain (Global Threats)	malicious activities across the globe.
b5a0c13a-aad6-11ee-	Malicious URL	This collection contains URLs being used for
8ca6-325096b39f47	(India Specific)	performing malicious activities primarily on Indian
		territory.
b5a0c19e-aad6-11ee-	Malicious URL	This collection contains URLs being used for
93f8-325096b39f47	(Zero Day)	malicious activities but seen by Seqrite Labs for the
		first time.
b5a0c202-aad6-11ee-	Malicious URL	This collection contains URLs being used for
b1e7-325096b39f47	(Global Threats)	malicious activities across the globe.

### Feed Format and Example

Seqrite Threat Intel Feeds are available for polling from a Seqrite TAXII Server. One feed file represents one STIX report which contains list of multiple IOCs such as IP, Domain, URL or File Hash generated within a time interval.

```
For example, the following STIX report consists of 5 malicious URLs.
```

```
{
        "type": "bundle",
        "id": "bundle--1d45b200-16a8-4b17-beb2-f1fd2011a196",
        "objects": [
               {
                        "type": "identity",
                        "spec version": "2.1",
                        "id": "identity--f360e704-0941-44fe-932c-1cc3ec1949ab",
                        "created": "2023-12-17T16:28:24.226308Z",
                        "modified": "2023-12-17T16:28:24.226308Z",
                        "name": "Quick Heal Technologies Limited",
                        "identity class": "organization",
                        "sectors": [
                                "technology"
                       ],
                        "contact_information": "DA@quickheal.com"
               },
               {
                        "type": "report",
                        "spec version": "2.1",
                        "id": "report--eaf82737-f79a-426d-b15c-052cc9f80e5f",
                        "created_by_ref": "identity--f360e704-0941-44fe-932c-1cc3ec1949ab",
                        "created": "2023-12-17T16:28:24.244307Z",
                        "modified": "2023-12-17T16:28:24.244307Z",
                        "name": "Malicious_URL_report",
                        "description": "Malicious URLs detected from Quick Heal Antivirus",
```

```
"published": "2023-12-17T15:27:17.497225Z",
        "object_refs": [
               "indicator--4c5f24ab-8b79-4be7-9146-698a7eec15ea",
               "indicator--88280143-3858-4310-86d9-d1d22e45f793",
               "indicator--63e4af65-90c1-4931-8ad2-a43408cd67c2",
               "indicator--deeba6ba-cff7-492a-864a-e135e35e5d50",
               "indicator--0f5d5cfe-0a0d-463c-8974-a0d1cc3bfa3c"
       ]
},
{
        "type": "indicator",
        "spec_version": "2.1",
        "id": "indicator--4c5f24ab-8b79-4be7-9146-698a7eec15ea",
        "created": "2023-12-17T15:27:17.497225Z",
        "modified": "2023-12-17T15:27:17.497225Z",
        "name": "Malicious_URLO",
        "description": "This Domain is Malicious",
        "indicator_types": [
               "malicious-activity"
       ],
        "pattern": "[url:value = '95.211.187.170/upg/LAUNCHMGR.DLL.gz']",
        "pattern_type": "stix",
        "pattern_version": "2.1",
        "valid_from": "2023-12-17T16:28:24.226308Z"
},
{
        "type": "indicator",
        "spec_version": "2.1",
        "id": "indicator--88280143-3858-4310-86d9-d1d22e45f793",
        "created": "2023-12-17T15:27:17.497225Z",
        "modified": "2023-12-17T15:27:17.497225Z",
```

```
"name": "Malicious_URL1",
        "description": "This Domain is Malicious",
        "indicator_types": [
                "malicious-activity"
       ],
        "pattern": "[url:value = 'besttenns.live/out_photo/1012_.jpg']",
        "pattern_type": "stix",
        "pattern_version": "2.1",
        "valid_from": "2023-12-17T16:28:24.228313Z"
},
{
        "type": "indicator",
        "spec_version": "2.1",
        "id": "indicator--63e4af65-90c1-4931-8ad2-a43408cd67c2",
        "created": "2023-12-17T15:27:17.497225Z",
        "modified": "2023-12-17T15:27:17.497225Z",
        "name": "Malicious_URL2",
        "description": "This Domain is Malicious",
        "indicator_types": [
                "malicious-activity"
       ],
        "pattern": "[url:value = 'adssa.banketas.com:8080/ny4']",
        "pattern_type": "stix",
        "pattern_version": "2.1",
        "valid_from": "2023-12-17T16:28:24.230312Z"
},
{
        "type": "indicator",
        "spec_version": "2.1",
        "id": "indicator--deeba6ba-cff7-492a-864a-e135e35e5d50",
        "created": "2023-12-17T15:27:17.497225Z",
```

```
"name": "Malicious_URL3",
                        "description": "This Domain is Malicious",
                        "indicator_types": [
                                "malicious-activity"
                        ],
                        "pattern": "[url:value = '112.26.121.7:19139/3EBCE3A4.Png']",
                        "pattern_type": "stix",
                        "pattern_version": "2.1",
                        "valid_from": "2023-12-17T16:28:24.23131Z"
                },
                {
                        "type": "indicator",
                        "spec_version": "2.1",
                        "id": "indicator--0f5d5cfe-0a0d-463c-8974-a0d1cc3bfa3c",
                        "created": "2023-12-17T15:27:17.497225Z",
                        "modified": "2023-12-17T15:27:17.497225Z",
                        "name": "Malicious_URL4",
                        "description": "This Domain is Malicious",
                        "indicator_types": [
                                "malicious-activity"
                        ],
                        "pattern": "[url:value = 'www.discoverysaddles.com.au/wp-login.php']",
                        "pattern_type": "stix",
                        "pattern_version": "2.1",
                        "valid_from": "2023-12-17T16:28:24.234308Z"
                }
       ]
}
```

"modified": "2023-12-17T15:27:17.497225Z",

#### How To Poll Feeds

Feeds from Seqrite TAXII server can be polled by calling a TAXII Rest API. Customer can use any rest API client of their choice.

To make a call to the polling API, the following parameters are required:

- API URL: <a href="https://threat-feed.segrite.com/{api root}/collections/{collection id}/objects/">https://threat-feed.segrite.com/{api root}/collections/{collection id}/objects/</a>
- api\_root: API root of for the API endpoints.
- collection\_id: Alphanumeric ID assigned for each collection.
- user\_name & password: Credentials for polling collection from TAXII server.
- x-api-key: API key for polling collection from TAXII server.
- Additional mandatory header Accept: application/taxii+json;version=2.1

#### **API Filters**

URL Query Parameters	Description	Example
added_after	A single "T-Syntax" RFC3339	2023-12-
	time stamp that filters	11T07:06:39.847694Z
	objects to only include	
	those objects added after	
	the specified time stamp. If	
	no added_after URL query	
	parameter is provided, the	
	server will return the oldest	
	objects matching the	
	request first. For example, if	
	a server has 100 objects (0-	
	99), the server will start at	
	record 0 looking for a match	
	and work its way up from	
	oldest to newest finding	
	1000 (the default &	
	maximum limit) of objects	
	that matched the request.	
Limit	A single integer value that	5
	indicates the maximum	

	number of objects to receive in a single response. This must be a positive integer greater than 1 and less than 1000.	
Next	An alphanumeric UUID is generated by server and sent back as response whenever there is more data available for polling. Same UUID should be sent as query parameter (?next=uuid) in request to poll next batch.	{base_url}/?next=8d56e147-67a9-422b-be05-bed678d3aa6c

## How to get credentials for polling feeds

- Send email to Support.Threatfeed@seqrite.com requesting for credentials for polling Seqrite threat Feed.
- Mention desired user name, email address, contact number, organization detail.
- Mention your organization's Public IP so that we can whitelist specified IP for accessing APIs.
- After internal verification you will receive user\_name, password, and API Key for polling feeds.
- You can poll any of the above mentioned feed collections using your credentials.
- You can use API client of your choice like Postman, Python request module or simply CURL command line.

#### **Example API call from CURL**

```
curl --request GET \
    --url https://threat-feed.seqrite.com/{api_root}/collections/{collection_id}/objects/ \
    --header 'Accept: application/taxii+json;version=2.1' \
    --header 'Authorization : Basic {base64 encoded string of username:password}' \
```

# Polling the feed using script

--header 'x-api-key: {x-api-key}'

Sequite has created a client script for polling threat feeds from all or any specific collection. All required parameters must be filled inside the script before starting the script.

Salient points of polling script:

- {script\_dir} This is any directory on a Linux PC where the customer can store the polling script.
- Starts polling all data if script is running for the first time or poll\_start\_time is not set.
- Once polling session finishes, last\_poll\_time is stored in a text file
   ({script\_dir}/last\_poll\_time\_stamp.txt) in the same directory where the client script is stored.
- last\_poll\_time\_stamp.txt is used in subsequent polling as start point so that only new data is polled.
- Script polls data in batches, default batch size is 10 feeds, but user can reduce batch size if required.
- Data that is being polled in a session is stored inside folder.
   {script\_dir}/objects/{current\_time\_stamp\_epoch}/objects.json
- Apart from raw feeds (STIX Bundle), polling script also extracts important fields such as IP,
  Domain, URLs, MD5, etc from the feed and stores them in a CSV file at
  {script\_dir}/objects/{current\_time\_stamp\_epoch}/md5.csv. Customer can use this CSV file to
  feed into their threat platform.

## **Important Notes**

- Feeds are published 24x7 so it is suggested to schedule polling on hourly basis.
- One feed bundle is a report of multiple IOCs (IP/Domain/URL/File Hash).
- Feeds are stored on server for limited period. For example, Files Hash feed is retained only for 3 days and for IP, Domain and URLs, feeds are retained for 30 days.