



API OVERVIEW

```
public static Point parseLocation(String locationString) {  
    Preconditions.checkNotNull(locationString, "Location String should not be null");  
    Preconditions.checkNotNull(locationString, "Location must be split with  
    locationString = locationString.trim();  
  
    if (locationString.contains(" ")) {  
        locationString = locationString.replaceAll(" ", "");  
    }  
  
    if (locationString.contains(",")) {  
        locationString = locationString.replaceAll(" ", "");  
    }  
  
    String[] location = locationString.split(",");  
    Preconditions.checkArgument(location.length >= 2, "Location should consist  
    double lat = Double.parseDouble(location[0]);  
    double lon = Double.parseDouble(location[1]);  
  
    return new Point(lat, lon);  
}
```



INTRODUCTION

As an intelligence professional, your team needs streamlined data access to support national security initiatives. Public, online sources often provide the fastest and most reliable information for national security use cases. But your analysts face a number of challenges when it comes to online data access:

- **Compromised speed-to-information.** Intelligence analysts are often overwhelmed with the laborious task of separating noise and processing and analyzing relevant data. This can cause information gaps and slower intelligence cycles.
- **Limited data variety.** Some critical online sources are not available through commercial APIs—which are required to locate and process data through a secure user interface. You need broader access to emerging online sources relevant for use cases like counter-terror, crisis response, and disinformation.



Information gaps and slow response can enable adversaries, resulting in avoidable damage to infrastructure, populations, and other national security interests.

To bridge these gaps, you need an API solution that expedites intelligence cycles with machine learning and improves data coverage. This means you and your team can generate the timely, actionable intelligence required for informed decision-making—and avoid or mitigate damage to people and assets.

Enter: the Echosec Systems API.

“Organizations recognize the value of threat intelligence. Sixty-four percent of global security decision-makers rate improving advanced threat intelligence capabilities as a high or critical priority.”

*—Forrester: The Digital Risk Protection Market
In 2019*

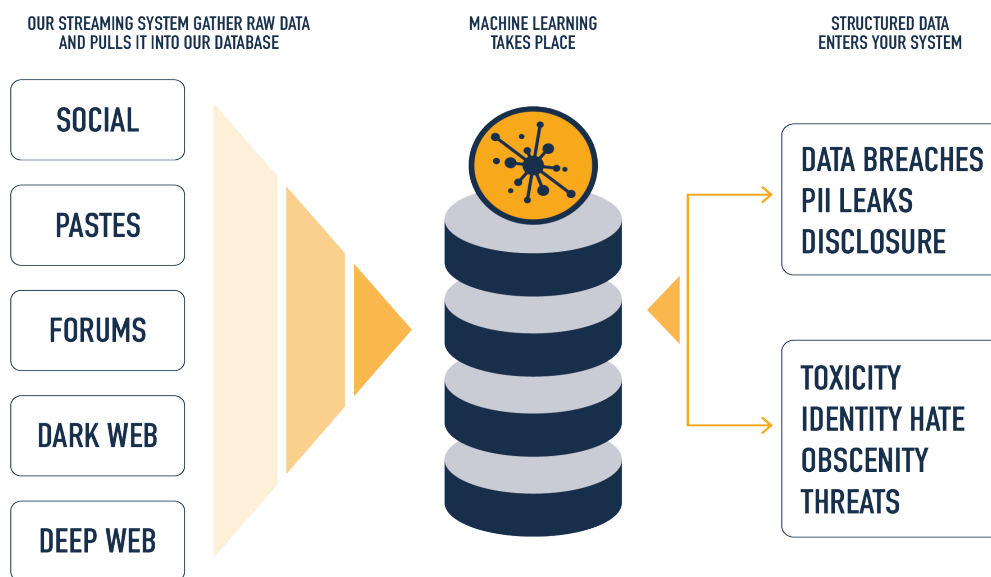
```
{  
  "echosecId": "7cb44f08-4df1-52af-83b3-63c19a074ffd",  
  "provider": "reddit",  
  "providerPostId": "t3_12345678",  
  "timeCreated": 1587527742,  
  "timeCrawled": 1587527749,  
  "authorId": "t1_12345678",  
  "authorUsername": "u/12345678",  
  "authorScreenName": null,  
  "authorThumbnail": null,  
  "authorUrl": "https://www.reddit.com/user/12345678",  
  "language": null,  
  "postLink": "https://www.reddit.com/r/IncelsWithoutHate/comments/12345678/its-hard-not-to-hate-women-after-what-i-see-in-the-news/",  
  "image": null,  
  "video": null,  
  "content": "Its hard not to hate women after what i see in the news",  
  "text": "Its hard not to hate women after what i see in the news",  
  "titleText": null,  
  "board": "IncelsWithoutHate",  
  "boardName": "IncelsWithoutHate",  
  "meta": {  
    "subreddit": "IncelsWithoutHate",  
    "score": 1  
  },  
  "postRoot": null,  
  "postParent": "b3ad79e8-2f1c-5118-bbbf-b765d0704f97",  
}
```

HOW DOES IT WORK?

The Echosec Systems API gives you searchable access to standard online data sources and more specialized feeds not available through other commercial, off-the-shelf APIs. This includes mainstream social media, blogs, and news, as well as obscure social networks and deep and dark websites.

Content is made available in the form of a REST API. You can easily integrate the API into external interfaces, feeds, and tooling to improve your data coverage and get more value out of your existing feeds. The API gives you the flexibility to access data based on your requirements rather than conforming to an off-the-shelf, commercial interface.

Proprietary machine learning models are already integrated into the Platform API to help your team process, analyze, and triage data more efficiently. The API is also built with a data lake to support more advanced data science applications, like integrations, analytics, visualizations, and AI.



FEATURES AND BENEFITS

REST API

- Integrate Echosec Systems data directly into your internal solutions to navigate data in line with your requirements.

REAL-TIME DATA

- Data is indexed as soon as it's posted so your team is the first to know about potential threats and other target content.
- Access over 1 million unique new data points every day.

IMPROVED DATA COVERAGE

- Monitor imageboards, forums, chats, and paste sites not available through other commercial solutions.
- Combine obscure data sources with mainstream feeds to reduce information gaps.

MULTIPLE LANGUAGE SUPPORT

- Detect and search for critical content in over 100 languages

BUILT-IN THREAT CLASSIFIERS

- Machine learning models automatically tag and rank content within specific threat categories to streamline your analysts' workflows.
- Geoparsing feature enables your team to extract exact locations from text, even if it hasn't been geotagged by the author.

DATA LAKE UNDERPINNING

- Data is crawled from a variety of sources relevant to security use cases.
- Content is indexed, normalized, and in some cases, enriched with machine learning classifiers.
- Posts are catalogued with a rich set of metadata, allowing users to parse out entities like source name, author identifiers, crawled and published dates, board names, and more.
- Access a large repository of catalogued historical data ideal for training machine learning models and other advanced applications..

DATA SOURCES

The API crawls and indexes data from a diverse set of specialized sources relevant to digital and physical security initiatives—from data breaches to counter-terrorism. Sources include:

FRINGE SOCIAL PLATFORMS

The API crawls data from fringe social platforms like Gab, Parler, and Telegram—where conversations related to extremist movements and other security concerns are more explicit than mainstream platforms.

PASTE SITES

Paste sites are used for anonymously sharing blocks of plain text—but are commonly used by threat actors to leak data. The Platform API crawls pastes from popular deep web pastes sites like Pastebin and dark websites where content is often more explicit.

MAINSTREAM NETWORKS

Widely-used social media sites like Twitter, VK, and Naver give your analysts a window into public sentiment and on-the-ground events anywhere in the world. Combine this data with more obscure sources to extract more context.

*We are regularly adding new data sources to our Platform.
For a current list of available sources, please contact sales@echosec.net.*

WHAT ARE ORGANIZATIONS USING IT FOR?

CRISIS RESPONSE

Stay alert to on-the-ground threats like natural disasters, pandemics, and attacks, and develop an informed response

COUNTER-TERRORISM

Understand extremist movements and organizations to inform counter-terror initiatives

EXECUTIVE RISK

Predict, detect, and respond faster to VIP-targeted threats

ENVIRONMENT MONITORING

Stay ahead of information environments and political climates anywhere in the world

CYBER-ENABLED THREATS

Supplement technical data feeds with early indication of breaches, targeted fraud, and insider threats

DISINFORMATION TRACKING

Monitor the disinformation and misinformation landscape surrounding specific topics and groups



Echosec Systems is a leader in online information discovery.
Our solutions gather millions of posts from the hidden
corners of the internet to deliver unparalleled digital and
physical security to our global users.

For more information, contact: sales@echosec.net

