

Wifi Map & Data Search | WiFi Hotspot Intelligence

Wifi Map & Data Search

Search for WiFi Hotspots Leaks / Public points

SummaryJSONCSVRaw

MODE

BSSID (MAC XX:XX:XX:XX:XX:XX)

BSSID (MAC)

00:E0:4C:6B:93:28

Search

Reset

Limit: 119 left / reset 600s

Examples:

ESSID: ZP (substr)

ESSID: ZP (prefix)

ESSID: ZP (exact)

Pass: 12345678

BSSID: 00:02:CF:A9:BD:F0

Results

COUNT:1

BSSID

21:47:35

BSSID	BSSID (STR)	ESSID	WIFI KEY	SECURITY	WEAK	COORDS	ACTIONS
963354792744	00:E0:4C:6B:93:28	JESUS		WPA2/WPA3	-	47.8544,35.0967	JSON Map

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Map (up to 200 points)

Description

Search publicly available database of WiFi hotspots with BSSID / ESSID / keys. Data is used solely for research purposes.

- Modes: essid, password, bssid
- ESSID match modes: substr | prefix | exact
- Pagination and filters
- Map (Leaflet)
- Rate limit + cache
- Local history

Do not use the information for unauthorized access. Check the laws of your jurisdiction.

Hints

Weak is determined by an empty/simple key and low security.

Security - heuristics (128=WEP/Open?, 225=WPA2).

Cache is valid for ~3 minutes.

Rate limit shows the remaining requests.

CSV: export visible rows.

The platform available at https://dash.niamonx.io/wifi_data — known as **Wifi Map & Data Search** — is a WiFi hotspot intelligence and research tool within the NiamonX platform. It allows authorized users to search publicly available WiFi hotspot datasets by BSSID, ESSID, or WiFi key indicators and visualize matching access points on an interactive map.

Overview of the Service

Wifi Map & Data Search is designed for research, security analysis, wireless exposure review, and OSINT-style investigation of publicly available WiFi hotspot records.

The tool allows users to search known hotspot data using several search modes, including BSSID, ESSID, and WiFi key. Results may include network identifiers, security type, weak-key indicators, approximate coordinates, and map visualization.

The service is intended strictly for lawful research, defensive security, infrastructure audit, and awareness purposes. It must not be used to access networks without authorization.

WiFi data can be sensitive because it may include network names, access point identifiers, approximate locations, and historical credential-like values. Users must handle results responsibly and comply with local laws.

? How the Search Works

When a user enters a query, the system searches a publicly available WiFi hotspot dataset using the selected mode.

Supported search modes include:

- BSSID search
- ESSID search
- WiFi key search

The backend returns matching records, and the interface displays them in a structured results table. If coordinates are available, matching points can also be shown on a Leaflet map powered by OpenStreetMap.

The system supports rate limiting and short-term caching. Cache is typically valid for a few minutes, which helps reduce repeated backend requests for identical queries.

Example search flow:

1. Select a search mode.
2. Enter a BSSID, ESSID, or WiFi key indicator.
3. Submit the query.
4. Review matching hotspot records.
5. Check security type and weak-key indicators.
6. View approximate location on the map when coordinates are available.
7. Export visible rows when needed.
8. Use results only for lawful and authorized research.

? What Can Be Searched

Wifi Map & Data Search supports several query types.

BSSID

BSSID is the MAC address of a wireless access point.

Example format:

```
00:11:22:33:44:55
```

BSSID search is useful when the analyst has a known access point identifier and wants to check whether it appears in the dataset.

ESSID

ESSID is the public WiFi network name, often shown as the visible WiFi name on devices.

Example:

```
Office_WiFi
```

ESSID searches may support different match modes:

- substr
- prefix
- exact

This allows users to search for networks by full name, prefix, or partial string.

WiFi Key

WiFi key search allows checking whether a specific known key value appears in the dataset.

This mode should be used carefully and only for defensive or authorized research, such as verifying whether a weak or reused test password appears in public data.

Sensitive keys should be masked in documentation, reports, screenshots, and exports.

Example masked format:

```
*****
```

?? Search Modes

The tool supports multiple modes depending on the type of value being searched.

Mode	Description
<code>bssid</code>	Search by access point MAC address
<code>ssid</code>	Search by WiFi network name
<code>wifikey</code> / <code>password</code>	Search by WiFi key indicator

Depending on the interface version, the WiFi key mode may be shown as `password`, `wifikey`, or similar internal naming.

? ESSID Match Modes

ESSID search can use different matching modes.

Match Mode	Description
<code>substr</code>	Finds ESSIDs containing the entered text
<code>prefix</code>	Finds ESSIDs starting with the entered text
<code>exact</code>	Finds only exact ESSID matches

Examples:

- `substr: finds "Office_WiFi_Main" when searching "WiFi"`
- `prefix: finds "Office_5G" when searching "Office"`
- `exact: finds only "Office_WiFi"`

Using exact mode reduces noise. Substring mode is useful for broad discovery but may return unrelated results.

? Results Table

After a successful search, matching records are shown in a structured table.

Typical columns include:

Column	Description
BSSID	Numeric or internal BSSID representation

Column	Description
BSSID string	Standard MAC address format
ESSID	WiFi network name
WiFi Key	Key value, if present and permitted
Security	Detected or inferred security type
Weak	Weak-key or weak-security indicator
Coords	Latitude and longitude, if available
Actions	Available record actions

Sensitive fields such as WiFi keys should be masked when screenshots, reports, or documentation are shared.

Example safe display format:

```
BSSID: 00:11:22:33:44:55
ESSID: Example_Network
WiFi Key: *****
Security: WPA2/WPA3
Coords: 47.0000, 35.0000
```

?? Map View

The tool includes a map view for records with coordinates.

The map is based on Leaflet and OpenStreetMap.

The interface may display up to a limited number of points, for example:

```
Map: up to 200 points
```

The map helps users visually understand the geographic distribution of matching access points.

Map use cases:

- Reviewing hotspot concentration
- Checking approximate network location
- Validating whether a BSSID appears in an expected area
- Identifying exposed or outdated records
- Supporting wireless infrastructure audits

Coordinates should be treated as sensitive. They may represent approximate or historical locations and should not be used for harassment, trespassing, or unauthorized access.

? Key Features

Public WiFi Dataset Search

The tool searches publicly available WiFi hotspot records for research and analysis.

BSSID Lookup

Users can search for a specific access point MAC address.

ESSID Lookup

Users can search by network name with substring, prefix, or exact matching.

WiFi Key Indicator Search

Users can check whether known key values appear in the dataset for authorized security review.

Security Heuristics

The tool displays inferred security information such as WPA2, WPA3, WEP, or open-network indicators when available.

Weak Indicator

The system may mark a record as weak when the key is empty, simple, reused, or when the detected security configuration appears low-security.

Coordinates

Records may include latitude and longitude.

Leaflet Map

Matching records with coordinates can be visualized on an interactive map.

Rate Limit

The interface shows remaining requests and reset timing.

Cache

Repeated searches may be cached for a short time.

Local Request History

Recent searches are stored locally in the browser.

CSV Export

Visible rows can be exported to CSV.

? Rate Limit and Cache

Wifi Map & Data Search includes rate limiting and caching.

Example rate-limit format:

```
Limit: 119 left / reset 600s
```

This means the user has a certain number of requests remaining until the reset window.

Cache behavior:

```
Cache is valid for approximately 3 minutes.
```

Caching helps reduce repeated backend lookups for identical queries and improves response speed.

Rate limits help protect the service from abuse and ensure fair access.

? Request History

The **Request History** panel stores recent searches locally in the browser.

History entries may include:

- Search mode
- Query value
- ESSID match mode
- Timestamp

Example safe history format:

```
bssid  
00:11:22:33:44:55  
17.06.2026, 21:47:35
```

Local history is useful for repeating previous searches, but it may contain sensitive search values.

Users should clear browser data or local history when working on shared or public devices.

? CSV Export

The tool can export visible rows to CSV.

CSV export may include:

- BSSID
- ESSID
- Security type
- Weak indicator
- Coordinates
- Other visible record fields

Sensitive values such as WiFi keys should be masked or excluded before sharing externally.

CSV exports should be stored securely and used only for authorized research, reporting, or internal audit workflows.

? Security Field Interpretation

The **Security** column is based on heuristics and available dataset values.

Possible security labels may include:

- Open
- WEP
- WPA
- WPA2
- WPA3
- WPA2/WPA3
- Unknown

Some internal numeric values may map to security guesses.

Example interpretation:

```
128 = possible WEP / Open
225 = possible WPA2
```

These values are heuristic and should not be treated as guaranteed technical truth.

Manual validation is recommended for security audits.

?? Weak Indicator

The **Weak** field helps identify potentially risky hotspot records.

A network may be marked weak when:

- The key is empty
- The key is very short
- The key is simple or common
- The key appears in weak-password patterns
- The security type is low
- The network appears open or outdated
- The encryption method is weak or uncertain

Weak indicators should be treated as triage signals, not final conclusions.

Organizations should review their own networks and replace weak configurations with strong WPA2/WPA3 security and unique passwords.

? Result Interpretation

WiFi dataset results should be interpreted carefully.

Important notes:

- Records may be historical.
- Coordinates may be approximate.
- ESSID names are not unique.
- BSSID values can be spoofed or replaced.
- WiFi keys may be outdated.
- Security labels are heuristic.
- A record appearing in the dataset does not guarantee current network availability.
- A matching WiFi key must not be used for unauthorized access.
- Map points may not represent the current physical location of an access point.

The tool should be used for research, verification, and defensive awareness, not for intrusion or unauthorized connectivity.

? Recommended Research Workflow

A responsible workflow should follow these steps.

1. Select the Correct Mode

Use BSSID for access point identifiers, ESSID for network names, and WiFi key search only for authorized security review.

2. Use Exact Search When Possible

Exact search reduces false positives, especially for ESSID values.

3. Review Security and Weak Indicators

Check whether the record suggests weak security or risky configuration.

4. Check Coordinates Carefully

Use map data as approximate context, not absolute proof.

5. Avoid Exposing Keys

Mask WiFi keys in reports, screenshots, and documentation.

6. Export Only What Is Needed

Use CSV export only for authorized workflows.

7. Remediate Owned Networks

If a network you control appears with a weak key or exposed record, rotate credentials and update security settings.

8. Validate Before Action

Do not assume that dataset records are current or fully accurate.

?? Security, Privacy & Responsible Use

Wifi Map & Data Search is a sensitive OSINT and research tool. It must be used responsibly.

Acceptable use cases include:

- Auditing your own WiFi networks
- Checking whether known BSSIDs appear in public datasets
- Reviewing exposure of organizational hotspots
- Researching weak or reused WiFi configurations
- Defensive wireless security assessment
- Academic or statistical analysis of public WiFi data
- Mapping public hotspot exposure trends
- Supporting compliance and risk reviews

Strictly prohibited use includes:

- Unauthorized access to WiFi networks
- Attempting to connect using discovered keys
- Trespassing to reach network locations
- Harassment or stalking based on coordinates
- Publishing sensitive WiFi keys
- Selling or redistributing access credentials
- Using results for intrusion, fraud, or abuse

- Targeting private homes or individuals
- Bypassing network access controls

Users must comply with the laws of their jurisdiction and platform rules. Misuse may result in account restriction or termination.

? Remediation Recommendations

If an owned or authorized network appears in search results with risky data, recommended actions include:

Change the WiFi Password

Immediately rotate exposed or weak credentials.

Use WPA2/WPA3

Avoid WEP, open networks, and outdated encryption.

Use a Strong Unique Key

Use a long, random password that is not reused elsewhere.

Disable WPS

WPS can introduce additional attack surface.

Rename Sensitive ESSIDs

Avoid exposing company names, addresses, personal names, or device roles in the ESSID.

Segment Guest Networks

Keep guest WiFi separate from internal systems.

Review Router Firmware

Update access point firmware and apply security patches.

Monitor for Re-Exposure

Recheck periodically after remediation.

?? Technical Highlights

- WiFi hotspot intelligence tool
 - Available at `dash.niamonx.io/wifi_data`
 - Searches publicly available WiFi hotspot datasets
 - Supports BSSID search
 - Supports ESSID search
 - Supports WiFi key indicator search
 - ESSID match modes: substring, prefix, exact
 - Results table with BSSID, ESSID, security, weak indicator, coordinates, and actions
 - Leaflet map visualization
 - OpenStreetMap base layer
 - Map displays up to a limited number of points
 - Rate-limit counter
 - Short-term cache of approximately 3 minutes
 - Local browser request history
 - CSV export for visible rows
 - Security heuristics
 - Weak-key heuristics
 - Intended for research, audit, OSINT, and defensive security workflows
-

? Usage Hints

- Use BSSID mode for exact access point MAC lookup.
- Use ESSID exact mode when searching for a precise network name.
- Use ESSID prefix or substring mode for broader discovery.
- Treat coordinates as approximate or historical.
- Do not use discovered keys for unauthorized access.
- Mask WiFi keys in reports and screenshots.
- Use the Weak field as a triage signal.
- Use Security as a heuristic, not a guaranteed classification.
- Cache is valid for approximately 3 minutes.
- Rate limit shows remaining requests.
- CSV export includes visible rows.
- Clear local history on shared devices.
- Check local laws before using WiFi dataset intelligence.

? Contact Information

For technical, legal, abuse, privacy, or support-related inquiries, users can contact the NiamonX team directly:

support@niamonx.io — Technical Support

other@niamonx.io — General Inquiries

takedown@niamonx.io — Privacy or Data Removal Requests

legal@niamonx.io — Legal and Compliance Matters

Alternative contact channel:

📧 Helpdesk: <https://support.niamonx.io/>

Summary

NiamonX Wifi Map & Data Search is a WiFi hotspot intelligence tool for searching publicly available hotspot records by BSSID, ESSID, or WiFi key indicators. It provides structured results, security heuristics, weak-key indicators, coordinates, Leaflet map visualization, rate limiting, short-term caching, local browser history, and CSV export.

The tool is intended for lawful research, wireless security auditing, OSINT analysis, exposure review, and defensive remediation. It must never be used for unauthorized network access, harassment, credential misuse, or privacy-invasive activity.

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