MAXMIND®

GeoIP® databases comparison chart + data dictionary

- ✓ Databases that you can download and host locally
- ✓ Eliminate network latency and per-query charges
- ✓ Access valuable data points for a variety of use cases
- ✓ Rely on regular database updates

Data dictionary

NEXT PAGE

		GeoIP databases							
	Data field name	Country	City	ISP	Domain	Connection Type	Anonymous	Anonymous Plus	Enterprise
1	network	✔	✔	✔	✔	✔	✔	✔	✔
2	geoname_id	✔	✔						✔
3	registered_country_geoname_id	✔	✔						✔
4	represented_country_geoname_id	✔	✔						✔
5	continent_code	✔	✔						✔
6	continent_name	✔	✔						✔
7	country_iso_code	✔	✔						✔
8	country_name	✔	✔						✔
9	postal_code		✔						✔
10	latitude		✔						✔
11	longitude		✔						✔
12	accuracy_radius		✔						✔
13	subdivision_1_iso_code		✔						✔
14	subdivision_1_name		✔						✔
15	subdivision_2_iso_code		✔						✔
16	subdivision_2_name		✔						✔
17	city_name		✔						✔
18	metro_code		✔						✔
19	time_zone		✔						✔
20	is_in_european_union	✔	✔						✔
21	is_anycast	✔	✔						✔
22	isp			✔					✔
23	mobile_country_code			✔					✔
24	mobile_network_code			✔					✔
25	organization			✔					✔
26	autonomous_system_number			✔					✔
27	autonomous_system_organization			✔					✔
28	domain				✔				✔
29	connection_type					✔			✔
30	is_anonymous						✔	✔	
31	is_anonymous_vpn						✔	✔	
32	is_hosting_provider						✔	✔	
33	is_public_proxy						✔	✔	
34	is_tor_exit_node						✔	✔	
35	is_residential_proxy						✔	✔	
36	provider_name							✔	
37	anonymizer_confidence							✔	
38	network_last_seen							✔	
39	country_confidence								✔
40	subdivision_confidence								✔
41	city_confidence								✔
42	postal_confidence								✔
43	user_type								✔

Data dictionary

	Data field name	Description
1	network	The IPv4 or IPv6 network in CIDR format.
2	geoname_id	A unique identifier for the network's location as specified by GeoNames.
3	registered_country_geoname_id	The country in which the ISP has registered the network. A unique identifier for the network's registered country as specified by GeoNames.
4	represented_country_geoname_id	The country which is represented by users of the IP address. For instance, the country represented by an overseas military base. A unique identifier for the network's registered country as specified by GeoNames.
5	continent_code	The continent code for this location.
6	continent_name	The continent name for this location.
7	country_iso_code	A two-character ISO 3166-1 country code for the country associated with the location.
8	country_name	The country name for this location.
9	postal_code	The postal code associated with the IP address.
10	latitude	The approximate latitude of the location associated with the network.
11	longitude	The approximate longitude of the location associated with the network.
12	accuracy_radius	The approximate accuracy radius, in kilometers, around the latitude and longitude for the geographical entity associated with the IP address.
13	subdivision_1_iso_code	A string of up to three characters containing the region-portion of the ISO 3166-2 code for the first level region associated with the IP address. Some countries have two levels of subdivisions, in which case this is the least specific. For example, in the United Kingdom this will be a country like "England", not a county like "Devon".
14	subdivision_1_name	The subdivision name for this location in the file's locale. As with the subdivision code, this is the least specific subdivision for the location.
15	subdivision_2_iso_code	A string of up to three characters containing the region-portion of the ISO 3166-2 code for the second level region associated with the IP address.
16	subdivision_2_name	The subdivision name for this location in the file's locale. As with the subdivision code, this is the most specific subdivision for the location.
17	city_name	The city name for this location.
18	metro_code	The metro code associated with the IP address. These are only available for networks in the US. MaxMind provides the same metro codes as used by Google Marketing Platform.

	Data field name	Description
19	time_zone	The time zone associated with location, as specified by the IANA Time Zone Database.
20	is_in_european_union	1 if the country associated with the location is a member state of the European Union, 0 otherwise.
21	is_anycast	1 if the IP address is part of an anycast network.
22	isp	The name of the ISP associated with the IP address.
23	mobile_country_code	The mobile country code (MCC) associated with the IP address and ISP.
24	mobile_network_code	The mobile network code (MNC) associated with the IP address and ISP.
25	organization	The name of the organization associated with the IP address.
26	autonomous_system_number	The ASN assigned to the ISP for routing.
27	autonomous_system_organization	The name of the autonomous system organization.
28	domain	The domain associated with the network.
29	connection_type	The type of connection. This will be one of the following values: • corporate • cable/DSL • cellular • satellite
30	is_anonymous	1 if the IP address belongs to any sort of anonymous network. Blank if not.
31	is_anonymous_vpn	1 if the IP address belongs to an anonymous VPN system. Blank if not.
32	is_hosting_provider	1 if the IP address belongs to a hosting provider. Blank if not.
33	is_public_proxy	1 if the IP address belongs to a public proxy. Blank if not.
34	is_tor_exit_node	1 if the IP address is a Tor exit node. Blank if not.
35	is_residential_proxy	1 if the IP address belongs to a residential proxy. Blank if not.
36	provider_name	The name of the VPN provider (e.g., NordVPN, SurfShark, etc.) associated with the network. Please note that MaxMind identifies a subset of VPN providers. A current list of VPN providers identified in the Anonymous Plus database is available on request.
37	anonymizer_confidence	A score ranging from 1 to 99 that is our percent confidence that the network is currently part of an actively used VPN service. Currently we will only provide values of 30 and 99, but the number of values will increase as we improve our confidence ratings.
38	network_last_seen	The last day that the network was sighted in our analysis of anonymized networks. This is in the ISO 8601 date format.

	Data field name	Description
39	country_confidence	The confidence that the country was correctly geolocated (1-100).
40	subdivision_confidence	The confidence that the most specific subdivision was correctly geolocated (1-100).
41	city_confidence	The confidence that the city was correctly geolocated (1-100).
42	postal_confidence	The confidence that the postal code was correctly geolocated (1-100).
43	user_type	The user type associated with the IP address. This will be one of the following values: • business • cafe • cellular • college • consumer_privacy_network • content_delivery_network • government • hosting • library • military • residential • router • school • search_engine_spider • traveler