

\*Note that Legacy service (Standard, Premium) outputs may have different field names, field types, values, and formats.

Output Name	Output Description	minFraud Legacy Standard*	minFraud Legacy Premium*	minFraud Score	minFraud Insights	minFraud Factors
<b>Top-Level Fields</b>						
id	This is the minFraud ID, a UUID that identifies the minFraud response.	✓	✓	✓	✓	✓
risk_score	This field contains the risk score, from 0.01 to 99. A higher score indicates a higher risk of fraud.	✓	✓	✓	✓	✓
funds_remaining	The approximate US dollar value of the funds remaining on your MaxMind account.			✓	✓	✓
queries_remaining	The approximate number of queries remaining for the service before your account runs out of funds.	✓	✓	✓	✓	✓
warnings	Warning objects detailing issues with the request that was sent such as invalid or unknown inputs.	✓	✓	✓	✓	✓
<b>IP address</b>						
risk	This field contains the risk associated with the IP address.			✓	✓	✓
risk_reasons	This field contains reason codes for the risk associated with the IP address.				✓	✓
/city/confidence	The confidence that the city was correctly geolocated (1-100).	✓	✓		✓	✓
/city/geoname_id	A unique identifier for the network's location as specified by GeoNames.				✓	✓
/city/names	The city name for this location.	✓	✓		✓	✓
/continent/code	The continent code for this location.	✓	✓		✓	✓
/continent/geoname_id	A unique identifier for the network's location as specified by GeoNames.				✓	✓
/continent/names	The continent name for this location.				✓	✓
/country/confidence	The confidence that the country was correctly geolocated (1-100).	✓	✓		✓	✓
/country/geoname_id	A unique identifier for the network's location as specified by GeoNames.				✓	✓
/country/is_in_european_union	1 if the country associated with the location is a member state of the European Union, 0 otherwise.				✓	✓
/country/iso_code	A two-character ISO 3166-1 country code for the country associated with the location.	✓	✓		✓	✓
/country/names	The country name for this location.	✓	✓		✓	✓
/location/accuracy_radius	The approximate accuracy radius, in kilometers, around the latitude and longitude for the geographical entity associated with the IP address.	✓	✓		✓	✓
/location/average_income	The average annual income associated with the IP address in US dollars.				✓	✓
/location/latitude	The approximate latitude of the location associated with the network.	✓	✓		✓	✓
/location/longitude	The approximate longitude of the location associated with the network.	✓	✓		✓	✓
/location/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.	✓	✓		✓	✓
/location/population_density	The estimated number of people per square kilometer.				✓	✓
/location/time_zone	The time zone associated with location, as specified by the IANA Time Zone Database.	✓	✓		✓	✓
/postal/code	The postal code associated with the IP address.	✓	✓		✓	✓
/postal/confidence	The confidence that the postal code was correctly geolocated (1-100).	✓	✓		✓	✓
/registered_country/geoname_id	A unique identifier for the network's location as specified by GeoNames.				✓	✓
/registered_country/is_in_european_union	This is true if the registered country is a member state of the European Union. Otherwise, the key is not included.				✓	✓
/registered_country/iso_code	A two-character ISO 3166-1 country code for the registered country.				✓	✓
/registered_country/names	The registered country name for this location.				✓	✓
/represented_country/geoname_id	A unique identifier for the network's location as specified by GeoNames.				✓	✓
/represented_country/is_in_european_union	This is true if the represented country is a member state of the European Union. Otherwise, the key is not included.				✓	✓
/represented_country/iso_code	A two-character ISO 3166-1 country code for the represented country.				✓	✓
/represented_country/names	The represented country name for this location.				✓	✓
/represented_country/type	The type of represented country. Currently limited to military but may include other types in the future.				✓	✓
/subdivisions/confidence	The confidence that the most specific subdivision was correctly geolocated (1-100).	✓	✓		✓	✓
/subdivisions/geoname_id	A unique identifier for the network's location as specified by GeoNames.				✓	✓
/subdivisions/iso_code	A string of up to three characters containing the region-portion of the ISO 3166-2 code for the region associated with the IP address.	✓	✓		✓	✓
/subdivisions/names	The subdivision (region) name for this location.	✓	✓		✓	✓
/traits/autonomous_system_number	The autonomous system number associated with the IP address.	✓	✓		✓	✓
/traits/autonomous_system_organization	The organization associated with the registered autonomous system number for the IP address.				✓	✓
/traits/domain	The second level domain associated with the IP address.	✓	✓		✓	✓
/traits/ip_address	The requested IP address.				✓	✓
/traits/is_anonymous	1 if the IP address belongs to any sort of anonymous network. Blank if not.				✓	✓
/traits/is_anonymous_vpn	1 if the IP address belongs to an anonymous VPN system. Blank if not.				✓	✓
/traits/is_hosting_provider	1 if the IP address belongs to a hosting provider. Blank if not.				✓	✓
/traits/is_public_proxy	1 if the IP address belongs to a public proxy. Blank if not.				✓	✓

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/traits/is_tor_exit_node	1 if the IP address is a Tor exit node. Blank if not.				✓	✓
/traits/is_residential_proxy	1 if the IP address belongs to a residential proxy. Blank if not.				✓	✓
/traits/isp	The name of the ISP associated with the IP address.	✓	✓		✓	✓
/traits/organization	The name of the organization associated with the IP address.	✓	✓		✓	✓
/traits/user_type	The user type associated with the IP address. See <a href="https://dev.maxmind.com/minfraud/">https://dev.maxmind.com/minfraud/</a> for valid values.	✓	✓		✓	✓
/traits/network	The largest network, in CIDR notation, where all of the fields besides ip_address have the same value.				✓	✓
/traits/user_count	The estimated number of users sharing the IP/network during the past 24 hours.				✓	✓
/traits/static_ip_score	A number from 0 to 99.99 that is an indicator of how static or dynamic an IP address is.				✓	✓
/location/local_time	The date and time of the transaction in the time zone associated with the IP address.				✓	✓
<b>Credit Card</b>						
brand	The card brand, such as "Visa", "Discover", "American Express", etc.				✓	✓
country	The two letter ISO 3166-1 alpha-2 country code associated with the location of the majority of customers using this credit card as determined by their billing address.	✓	✓		✓	✓
is_issued_in_billing_address_country	This field is true if the country of the billing address matches the country of the majority of customers using that IIN. It is false if both countries are available but do not match.	✓	✓		✓	✓
is_prepaid	This field is true if the issuer ID number is for a prepaid card. It is false if the issuer ID number is for a non-prepaid card.		✓		✓	✓
is_virtual	This field is true if the issuer ID number is for a virtual card. It is false if the issuer ID number is for a non-virtual card.				✓	✓
is_business	This field is true if the issuer ID number is for a business card. It is false if the issuer ID number is for a non-business card.				✓	✓
type	The card's type, such as "charge", "debit", or "credit".				✓	✓
/issuer/name	The name of the bank which issued the credit card.		✓		✓	✓
/issuer/matches_provided_name	This field is true if the name matches the name provided in the request for the card issuer. It is false if the name does not match.	✓	✓		✓	✓
/issuer/phone_number	The phone number of the bank which issued the credit card.		✓		✓	✓
/issuer/matches_provided_phone_number	This field is true if the phone number matches the number provided in the request for the card issuer. It is false if the number does not match.	✓	✓		✓	✓
<b>Device</b>						
confidence	A number from 0.01 to 99 representing the confidence that the /device/id refers to a unique device as opposed to a cluster of similar devices.				✓	✓
id	A UUID that MaxMind uses for the device associated with this IP address.				✓	✓
last_seen	The date and time of the last sighting of the device.				✓	✓
local_time	The local date and time of the transaction in the time zone of the device.				✓	✓
<b>Email</b>						
first_seen	A date string (e.g. 2017-04-24) to identify the date an email address was first seen by MaxMind.				✓	✓
/domain/first_seen	A date string (e.g. 2019-01-01) to identify the date an email address domain was first seen by MaxMind.				✓	✓
is_disposable	This field is true if MaxMind believes that the email address is from a disposable email provider. It is false if the address is not from a known disposable email provider.				✓	✓
is_free	This field is true if MaxMind believes that this email domain is for a free email provider such as Gmail or Yahoo! Mail. It is false if the domain is not for a known free email provider.	✓	✓		✓	✓
is_high_risk	This field is true if MaxMind believes that this email address is likely to be used for fraud. It is false if MaxMind does not believe the address is used for fraud.	✓	✓		✓	✓
<b>Shipping Address</b>						
is_high_risk	This field is true if the shipping address is an address associated with fraudulent transactions. The field is false when the address is not associated with increased risk.	✓	✓		✓	✓
is_postal_in_city	This field is true if the postal code provided with the address is in the city for the address. The field is false when the postal code is not in the city.	✓	✓		✓	✓
latitude	The approximate latitude associated with the address.				✓	✓
longitude	The approximate longitude associated with the address.				✓	✓
distance_to_ip_location	The distance in kilometers from the address to the IP location.				✓	✓
distance_to_billing_address	The distance in kilometers from the shipping address to billing address.				✓	✓
is_in_ip_country	This field is true if the shipping address is in the IP country. The field is false when the address is not in the IP country.				✓	✓
<b>Billing Address</b>						
is_postal_in_city	This field is true if the postal code provided with the address is in the city for the address. The field is false when the postal code is not in the city.	✓	✓		✓	✓
latitude	The approximate latitude associated with the address.				✓	✓
longitude	The approximate longitude associated with the address.				✓	✓
distance_to_ip_location	The distance in kilometers from the address to the IP location.	✓	✓		✓	✓
is_in_ip_country	This field is true if the address is in the IP country. The field is false when the address is not in the IP country.	✓	✓		✓	✓

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<b>Disposition</b>						
action	This describes how the request was handled. Valid values are "accept", "reject", "manual_review".			✓	✓	✓
reason	This describes why the action was set to a particular value. The valid values are "default", "custom_rule".			✓	✓	✓
rule_label	The custom rule that was triggered. If you do not have custom rules set up, the triggered custom rule does not have a label, or no custom rule was triggered, the field will not be included in the response.			✓	✓	✓
<b>Subscores</b>						
avs_result	The risk associated with the AVS result.					✓
billing_address	The risk associated with the billing address.					✓
billing_address_distance_to_ip_location	The risk associated with the distance between the billing address and the location for the given IP address.					✓
browser	The risk associated with the browser attributes such as the User-Agent and Accept-Language.					✓
chargeback	Individualized risk of chargeback for the given IP address on your account and shop ID.					✓
country	The risk associated with the country the transaction originated from.					✓
country_mismatch	The risk associated with the combination of IP country, card issuer country, billing country, and shipping country.					✓
cvv_result	The risk associated with the CVV result.					✓
device	The risk associated with the device.					✓
email_address	The risk associated with the particular email address.					✓
email_domain	The general risk associated with the email domain.					✓
email_local_part	The risk associated with the email address local part (the part of the email address before the @ symbol).					✓
issuer_id_number	The risk associated with the particular issuer ID number (IIN) given the billing location and the history of usage of the IIN on your account and shop ID.					✓
order_amount	The risk associated with the particular order amount for your account and shop ID.					✓
phone_number	The risk associated with the particular phone number.					✓
shipping_address	The risk associated with the shipping address.					✓
shipping_address_distance_to_ip_location	The risk associated with the distance between the shipping address and the location for the given IP address.					✓
time_of_day	The risk associated with the local time of day of the transaction in the IP address location.					✓
<b>Deprecated Service Fields</b>						
email_tenure	Deprecated. Use email_address subscore.					✓
ip_tenure	Deprecated. Use ip_address risk.					✓
/traits/is_anonymous_proxy	Replaced by Anonymous IP flags.				✓	✓
/traits/is_satellite_provider	Replaced by Anonymous IP flags.				✓	✓
/country/is_high_risk	Deprecated.	✓	✓		✓	✓
<b>Deprecated Legacy Service Fields</b>						
ip_netspeedCell	Replaced by user_type field values.	✓	✓			
anonymousProxy	Replaced by Anonymous IP flags.	✓	✓			
proxyScore	Replaced by IP Risk Score.	✓	✓			
ip_corporateProxy	Deprecated.	✓	✓			
highRiskUsername	Deprecated.	✓	✓			
highRiskPassword	Deprecated.	✓	✓			
custPhoneInBillingLoc	Deprecated.	✓	✓			

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<b>Device</b>						
ip_address	The IP address associated with the device used by the customer in the transaction.	✓	✓	✓	✓	✓
user_agent	The HTTP "User-Agent" header of the browser used in the transaction.	✓	✓	✓	✓	✓
accept_language	The HTTP "Accept-Language" header of the device used in the transaction.	✓	✓	✓	✓	✓
session_age	The number of seconds between the creation of the user's session and the time of the transaction.			✓	✓	✓
session_id	An ID that uniquely identifies a visitor's session on the site.			✓	✓	✓
<b>Event</b>						
transaction_id	Your internal ID for the transaction.	✓	✓	✓	✓	✓
shop_id	Your internal ID for the shop, affiliate, or merchant this order is coming from.	✓	✓	✓	✓	✓
time	The date and time the event occurred.			✓	✓	✓
type	The type of event being scored. See <a href="https://dev.maxmind.com/minfraud/">https://dev.maxmind.com/minfraud/</a> for valid types.			✓	✓	✓
<b>Account</b>						
user_id	A unique user ID associated with the end-user in your system.			✓	✓	✓
username_md5	An MD5 hash as a hexadecimal string of the username or login name associated with the account.	✓	✓	✓	✓	✓
<b>Email</b>						
address	This field must be either be a valid email address or an MD5 of the lowercased email used in the transaction.	✓	✓	✓	✓	✓
domain	The domain of the email address used in the transaction.	✓	✓	✓	✓	✓
<b>Billing</b>						
first_name	The first name of the end user as provided in their billing information.			✓	✓	✓
last_name	The last name of the end user as provided in their billing information.			✓	✓	✓
company	The company of the end user as provided in their billing information.			✓	✓	✓
address	The first line of the user's billing address.			✓	✓	✓
address_2	The second line of the user's billing address.			✓	✓	✓
city	The city of the user's billing address.	✓	✓	✓	✓	✓
region	The ISO 3166-2 subdivision code for the user's billing address.	✓	✓	✓	✓	✓
country	The two character ISO 3166-1 alpha-2 country code of the user's billing address.	✓	✓	✓	✓	✓
postal	The postal code of the user's billing address.	✓	✓	✓	✓	✓
phone_number	The phone number without the country code for the user's billing address.	✓	✓	✓	✓	✓
phone_country_code	The country code for phone number associated with the user's billing address.			✓	✓	✓
<b>Shipping</b>						
first_name	The first name of the end user as provided in their shipping information.			✓	✓	✓
last_name	The last name of the end user as provided in their shipping information.			✓	✓	✓
company	The company of the end user as provided in their shipping information.			✓	✓	✓
address	The first line of the user's shipping address.	✓	✓	✓	✓	✓
address_2	The second line of the user's shipping address.			✓	✓	✓
city	The city of the user's shipping address.	✓	✓	✓	✓	✓
region	The ISO 3166-2 subdivision code for the user's shipping address.	✓	✓	✓	✓	✓
country	The two character ISO 3166-1 alpha-2 country code of the user's shipping address.	✓	✓	✓	✓	✓
postal	The postal code of the user's shipping address.	✓	✓	✓	✓	✓
phone_number	The phone number without the country code for the user's shipping address.			✓	✓	✓
phone_country_code	The country code for phone number associated with the user's shipping address.			✓	✓	✓
delivery_speed	The shipping delivery speed for the order. See <a href="https://dev.maxmind.com/minfraud/">https://dev.maxmind.com/minfraud/</a> for valid values.			✓	✓	✓
<b>Payment</b>						
processor	The payment processor used for the transaction. See <a href="https://dev.maxmind.com/minfraud/">https://dev.maxmind.com/minfraud/</a> for valid values.			✓	✓	✓
was_authorized	The authorization outcome from the payment processor.			✓	✓	✓
decline_code	The decline code as provided by your payment processor.			✓	✓	✓
<b>Credit Card</b>						
issuer_id_number	The first 6 digits of the credit card number.	✓	✓	✓	✓	✓

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last_4_digits	The last four digits of the credit card number.			✓	✓	✓
token	A token uniquely identifying the card.			✓	✓	✓
bank_name	The name of the issuing bank as provided by the end user.	✓	✓	✓	✓	✓
bank_phone_country_code	The phone country code for the issuing bank as provided by the end user.			✓	✓	✓
bank_phone_number	The phone number, without the country code, for the issuing bank as provided by the end user.	✓	✓	✓	✓	✓
avs_result	The address verification system (AVS) check result, as returned to you by the credit card processor.	✓	✓	✓	✓	✓
cvv_result	The card verification value (CVV) code as provided by the payment processor.	✓	✓	✓	✓	✓
was_3d_secure_successful	Whether the outcome of 3-D Secure verification (e.g. Safekey, SecureCode, Verified by Visa) was successful.			✓	✓	✓
<b>Order</b>						
amount	The total order amount for the transaction before taxes and discounts.	✓	✓	✓	✓	✓
currency	The ISO 4217 currency code for the currency used in the transaction.	✓	✓	✓	✓	✓
discount_code	The discount code/s applied to the transaction.			✓	✓	✓
affiliate_id	The ID of the affiliate where the order is coming from.			✓	✓	✓
subaffiliate_id	The ID of the sub-affiliate where the order is coming from.			✓	✓	✓
referrer_uri	The URI of the referring site for this order.			✓	✓	✓
is_gift	Whether order was marked as a gift by the purchaser.			✓	✓	✓
has_gift_message	Whether the purchaser included a gift message.			✓	✓	✓
<b>Shopping cart</b>						
category	The category of the item.			✓	✓	✓
item_id	Your internal ID for the item.			✓	✓	✓
quantity	The quantity of the item in the shopping cart.			✓	✓	✓
price	The per-unit price of this item in the shopping cart.			✓	✓	✓
<b>Custom inputs</b>						
				✓	✓	✓