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Fraud Risk Factor and How It Is Calculated

Learn about the fraud risk factor.

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A fraud risk factor is a number from 1 to 10, estimating the riskiness of accepting a credit card for a certain order (the higher the number, the higher the risk). The calculation is performed in two steps:

1. At the first step, the AntiFraud server processes the following parameters:

- country_doesnot_match (binary value, 1 or 0)
- city_doesnot_match (binary value, 1 or 0)
- \circ is_free_email (binary value, 1 or 0)
- is_anonymous_proxy (binary value, 1 or 0)
- fraudulent_ip (binary value, 1 or 0)
- proxy_score (decimal value, from 0 to 10)
- spam_score (decimal value, from 0 to 10)
- CHECK_IP_DISTANCE (integer value, distance in km)

It uses the following algorithm for data processing:

- Initially, the fraud risk factor gets the "0" (zero) value.
- If any of the binary parameters takes the value of "1" (true), the fraud risk factor is increased by a predefined ("know-how") value.
- If the proxy_score or spam_score values exceed 4, the fraud risk factor is increased by a predefined ("know-how") value.
- If the CHECK_IP_DISTANCE value exceeds the AntiFraud safe distance value, the fraud risk factor is increased by a predefined ("know-how") value.
- Finally, if the calculation results exceed 10, the fraud risk factor is set to 10.
- 2. On the second step, your online store receives the calculated value to adjust it according to the following rules:
 - If the order total exceeds the "order total threshold," the order_limit_excess value turns "1" (true), and the fraud risk factor is multiplied by 2;
 - If the customer has successful orders, the completed orders value turns "1" (true), and the fraud risk factor is divided by 2;
 - If the customer has canceled orders, the declined_orders value turns "1" (true), and the fraud risk factor is multiplied by 1,5;
 - o If the customer's IP address has been already used to place orders under a different user account, the foreign_ip_address value takes the value of "1" (true), and the fraud risk factor is multiplied by 2;
 - If the customer's billing address is considered to be a high-risk country, the is_high_risk_country value turns "1" (true), and the fraud risk factor is incremented by 7.
 - Finally, if the fraud risk factor value exceeds 10, it is set to 10.

Related pages:

- AntiFraud Service Connector Add-on
- AntiFraud Service Connection and Setup
- <u>Using AntiFraud Service</u>

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