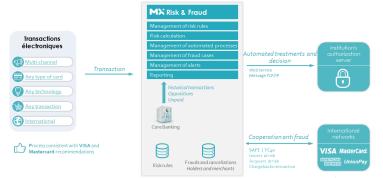# MX+ Risk & Fraud

MX Risk & Fraud protects holders, merchants and financial institutions against fraud on any type of transaction (withdrawal, payment, transfer of money, and many others), whatever the channel (ATM, POS, telephone mobile, and many others), domestic or international (Visa, Mastercard, China UnionPay and many others), for any payment method (debit card, prepaid, e-wallet, m-wallet, and many others).

Indeed, the application allows proactive detection of holder and merchant fraud attempts for issuers and acquirers through advanced risk calculation algorithms based on the transactional history of the participants and comparison with typical models of behavior of fraudsters. In case of fraud detection, it is possible to block the transaction automatically and to alert the customer, the operators and the electronic payment units in real time by sms, email, and many other channels.

In order to prevent fraud coming from abroad, the application communicates with the international electronic payment networks in order to synchronize the lists of issuers and acquirers at risk, through standard interfaces: TC40 for Visa and SAFE for Mastercard.

Context of the transaction + **Transaction threshold** = SCORE OF RISK

MX Plus integrates a comprehensive library of risk rules, which are fully configurable and adaptable to the security policy of the institution. These rules can apply to all accounts of a customer, all his cards and can take into account the whole context of the transaction, including:

- The geographical origin of the transaction
- The card product
- Transaction type
- The merchant who initiated the transaction
- The profile of the holder
- Transaction schedule
- Incorrect PIN entry
- Change of velocity of the holder or the merchant
- The label of the card
- The period of the year

These rules are based on thresholds totally configurable according to:

- Transaction amount
- Number of transactions
- Cumulation per period, which may be fixed or sliding