

Credit Card Fraud Detection

Event-driven and Process-oriented Architectures

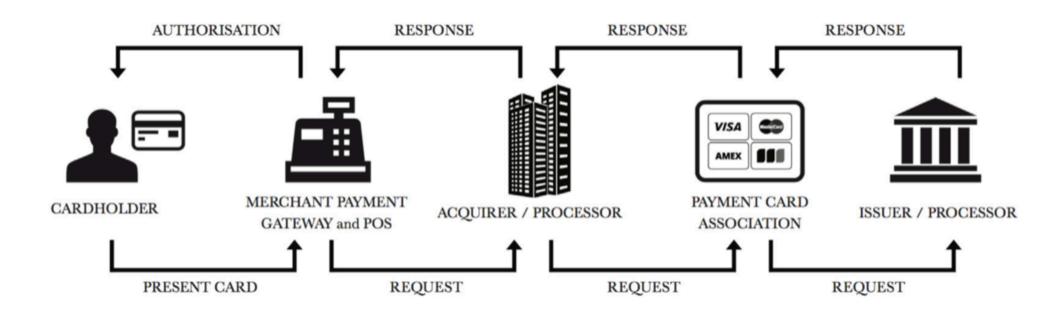
MCS SS22

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The Payment Cycle





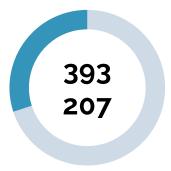


- Copied Card Details
 - Stolen Cards



- Leaked or Guessed Card Details
 - Social Engineering/Phising





Cases of credit card fraud in the US in 2020



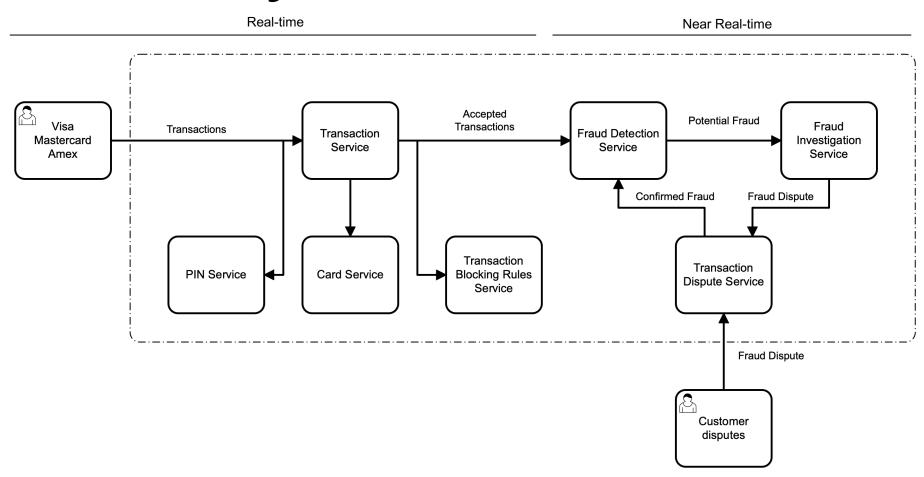
Increase compared to 2019



Rank among the most common identity thefts

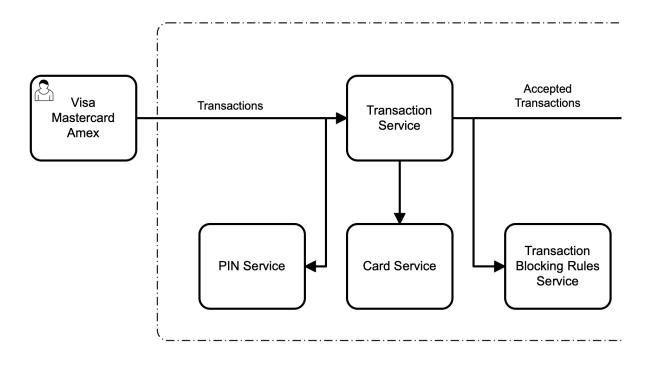


System Overview





Transaction Workflow (Orchestrated)





Fraud Detection Workflow (Choreographed)

