



University of St.Gallen

# Credit Card Fraud Detection

Event-driven and  
Process-oriented  
Architectures

MCS SS22

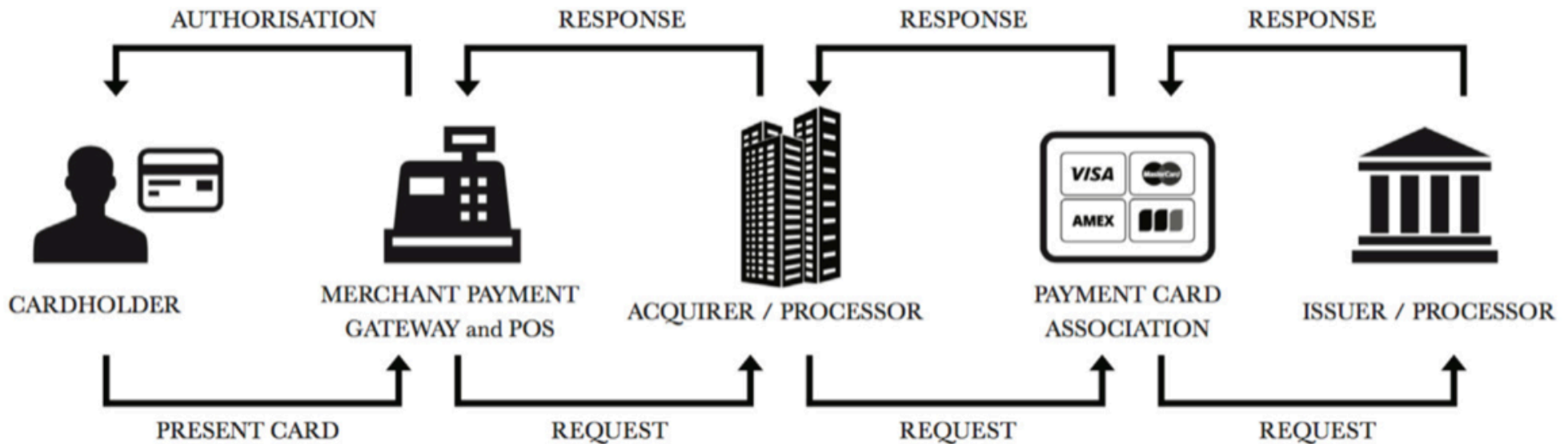
Kristofer Reynisson

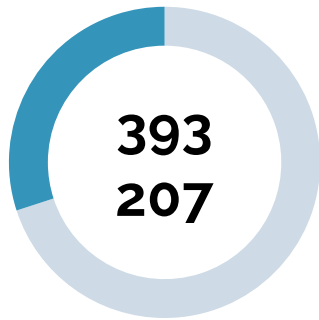
Marcel Mettler

Jonas Hermann

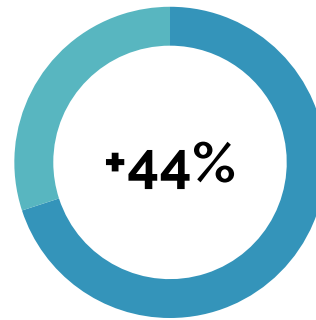


# The Payment Cycle

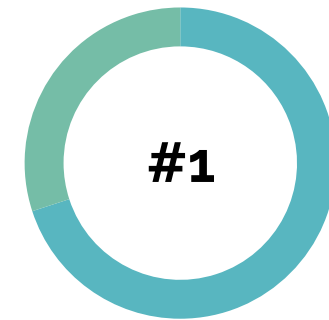




Cases of credit  
card fraud in  
the US in 2020

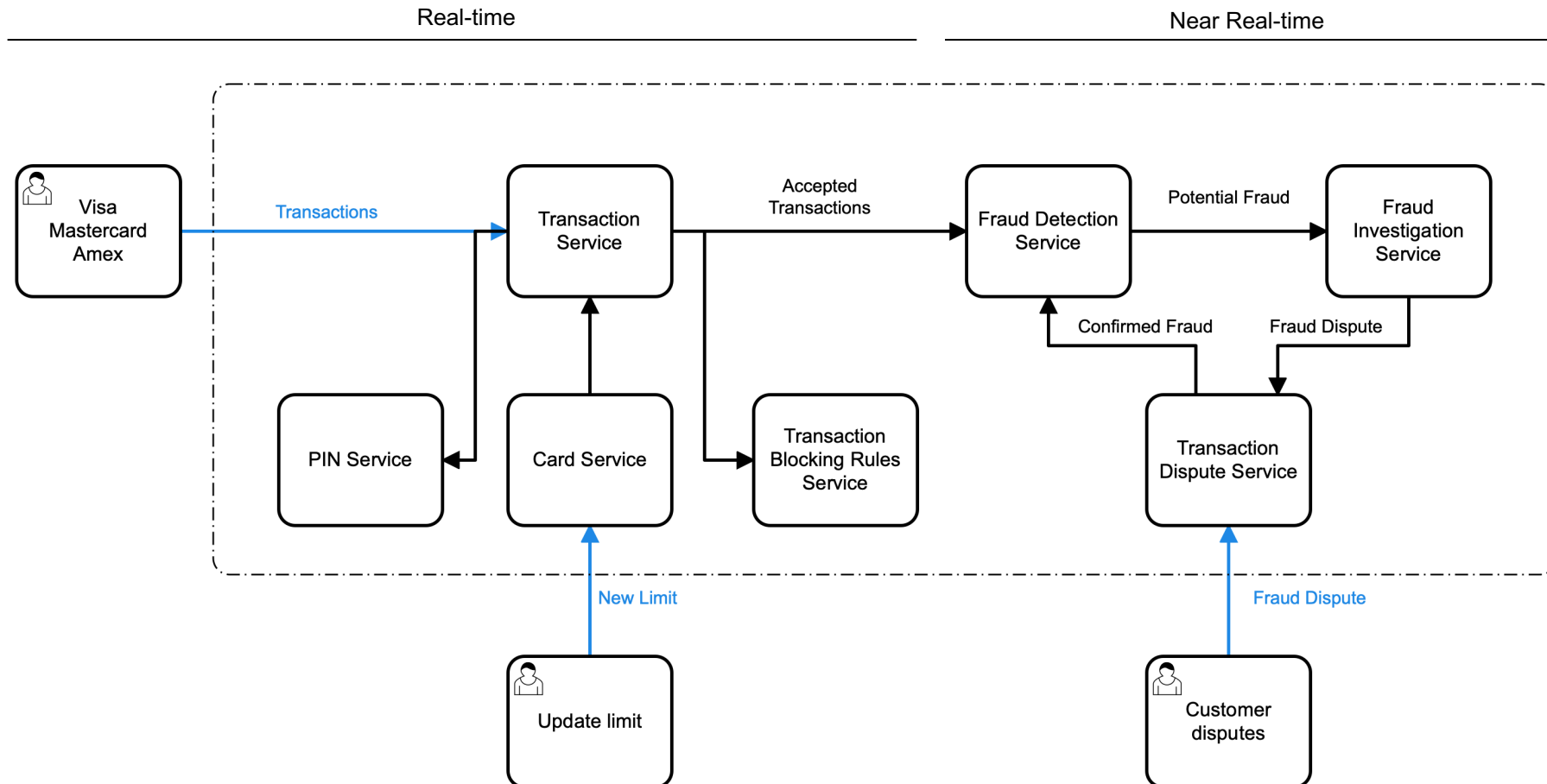


Increase  
compared to  
2019

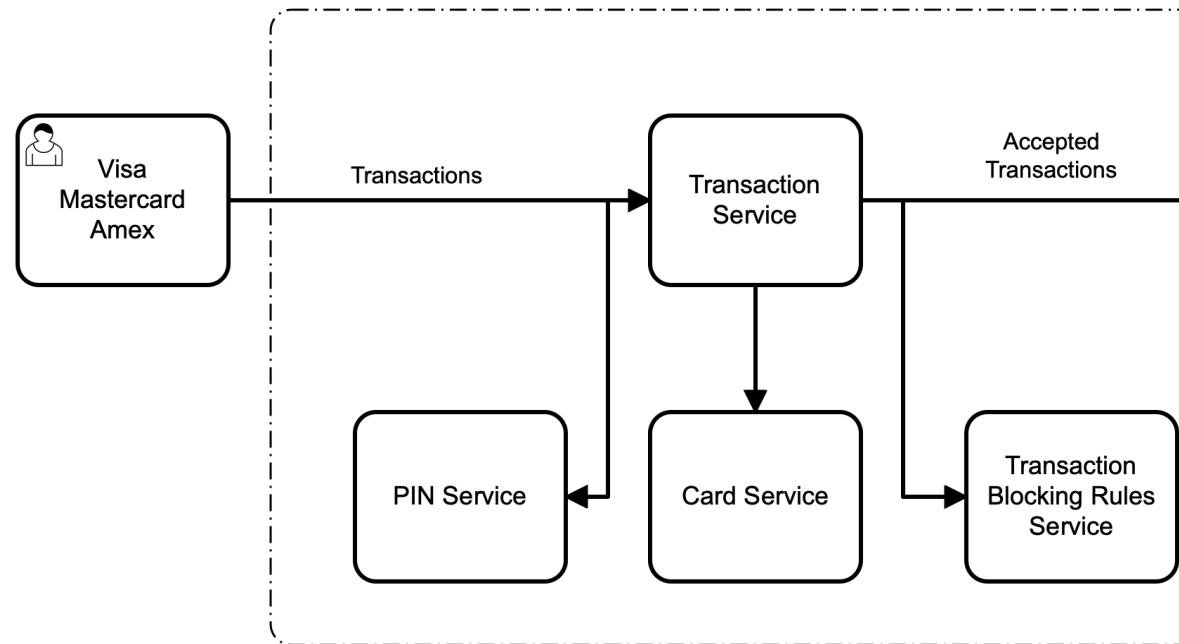


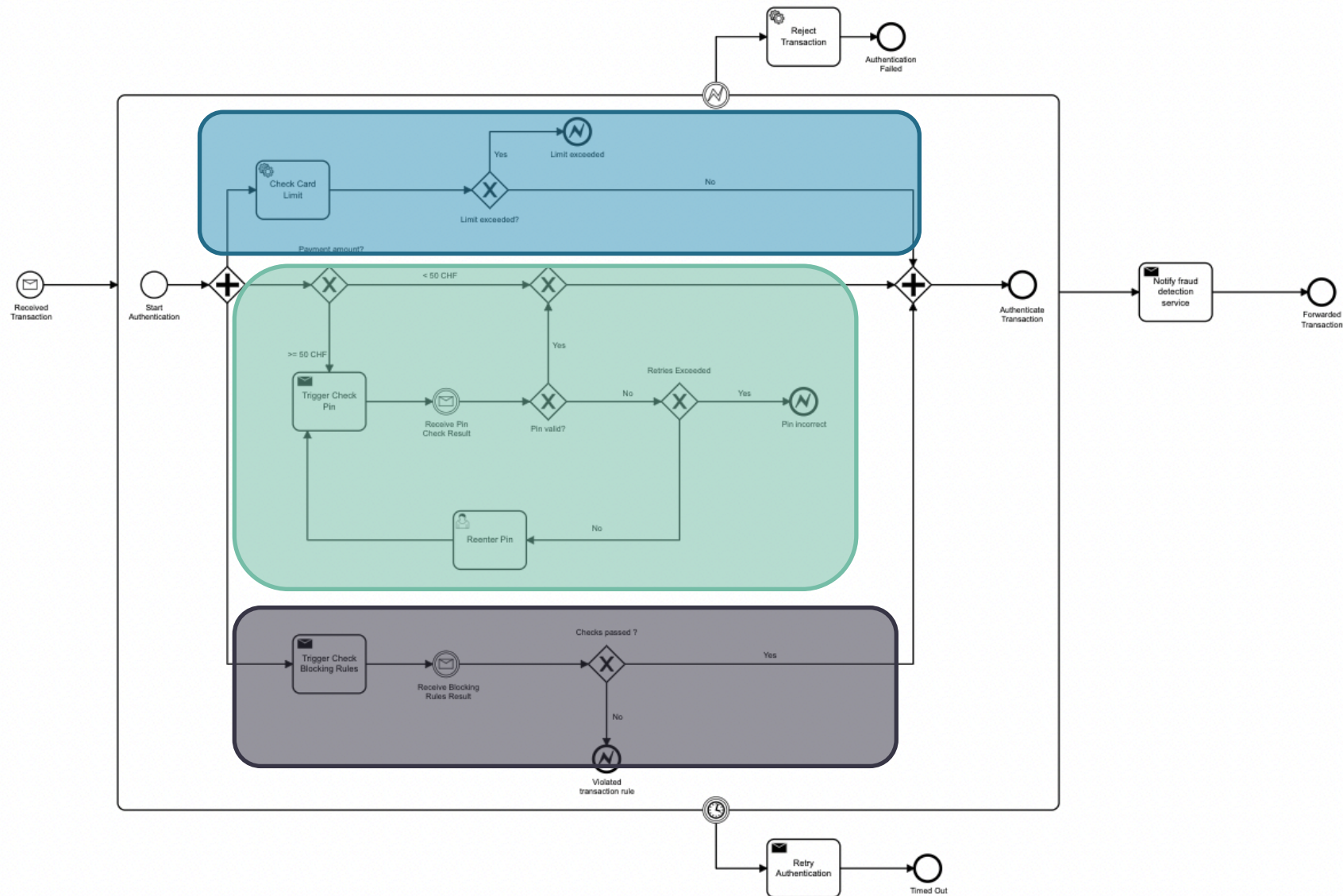
Rank among  
the most  
common  
identity thefts

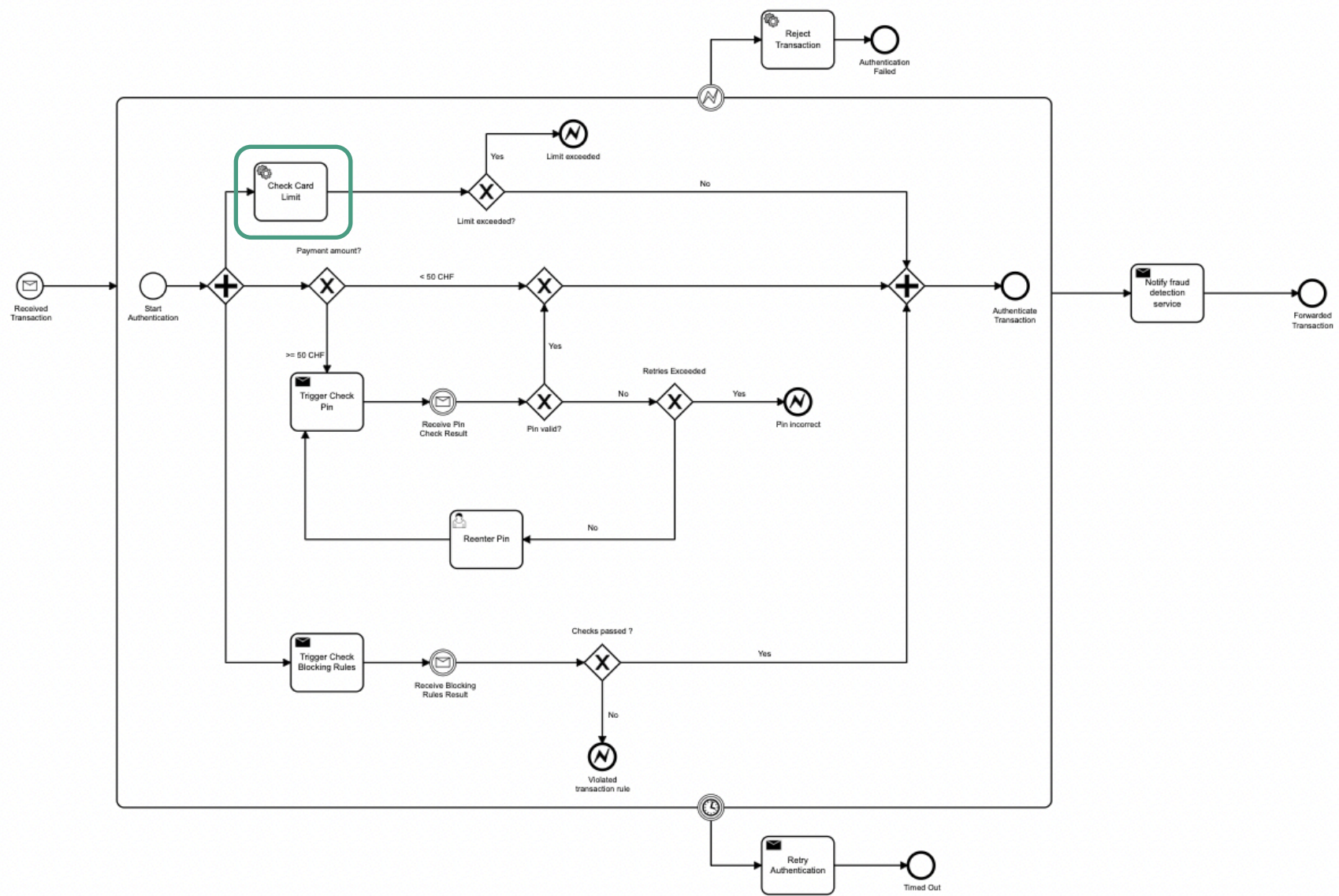
# System Overview

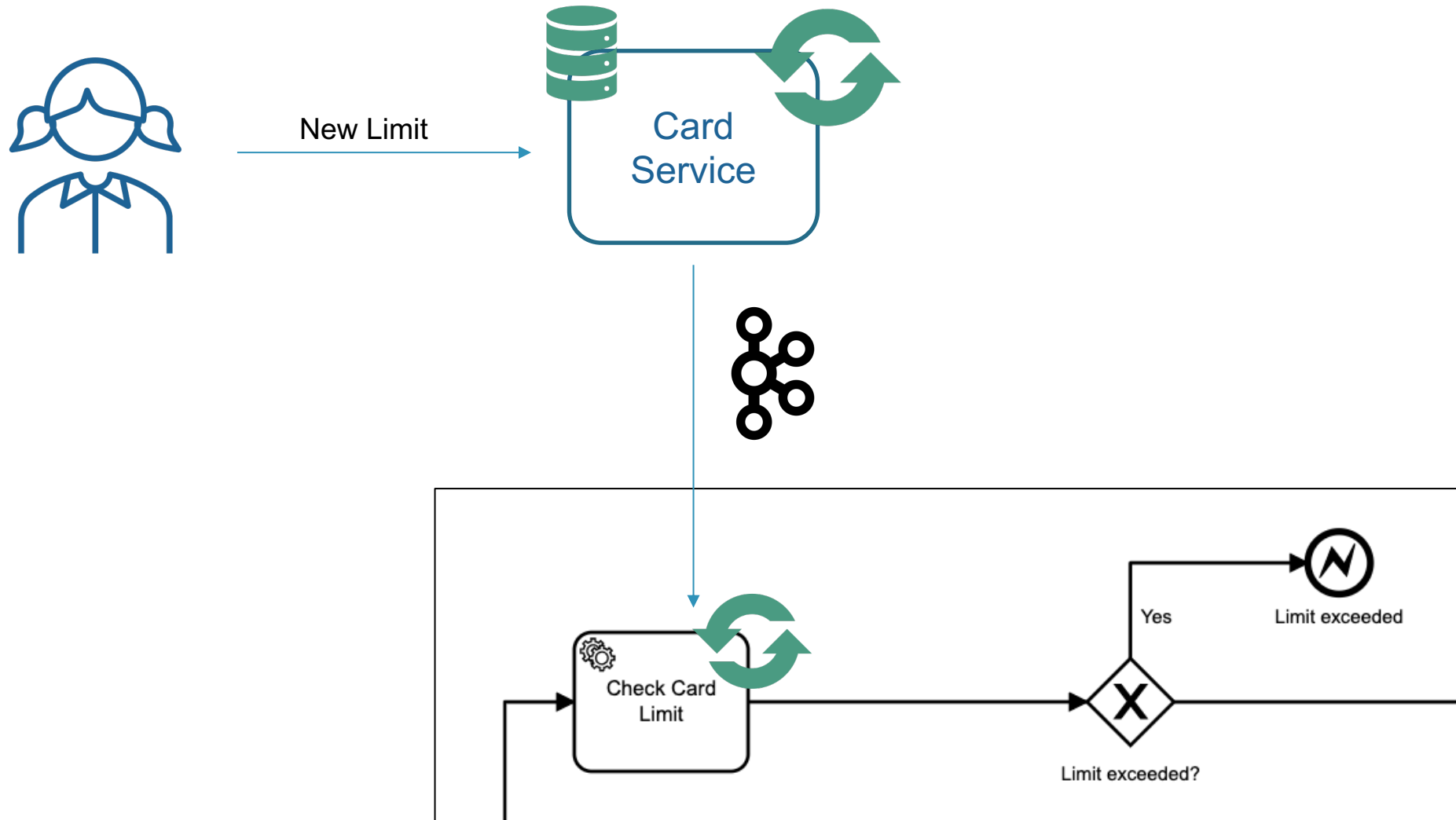


# Transaction Workflow (Orchestrated)

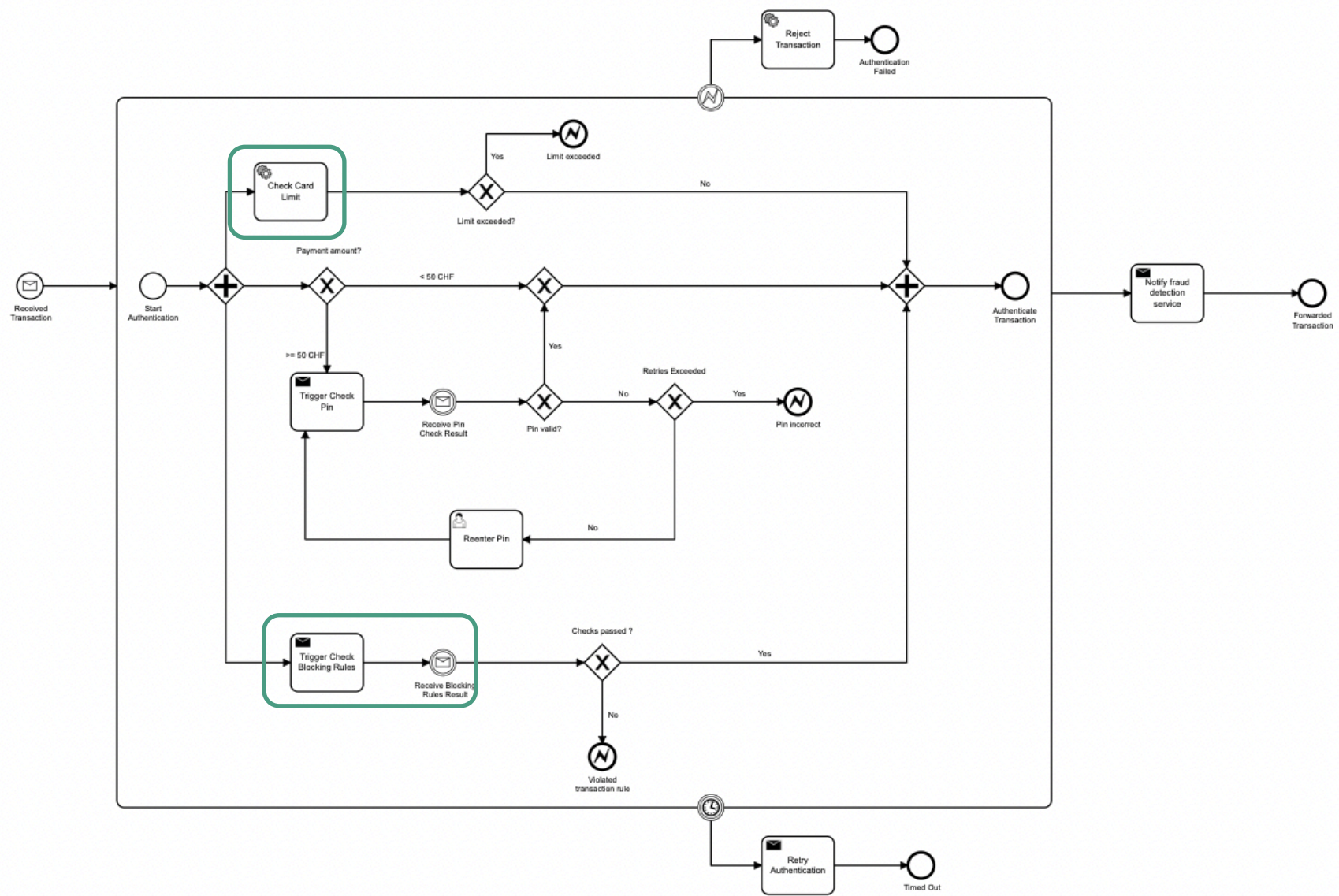


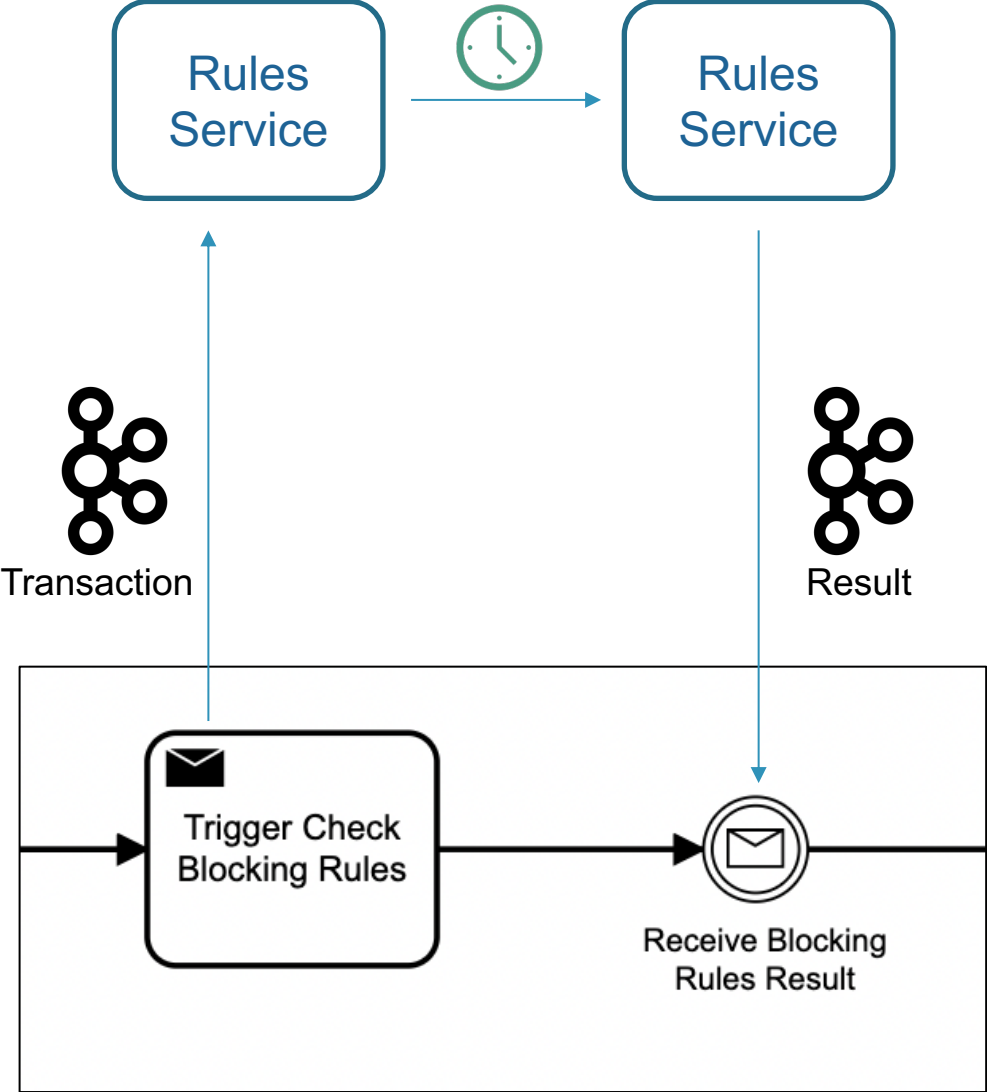


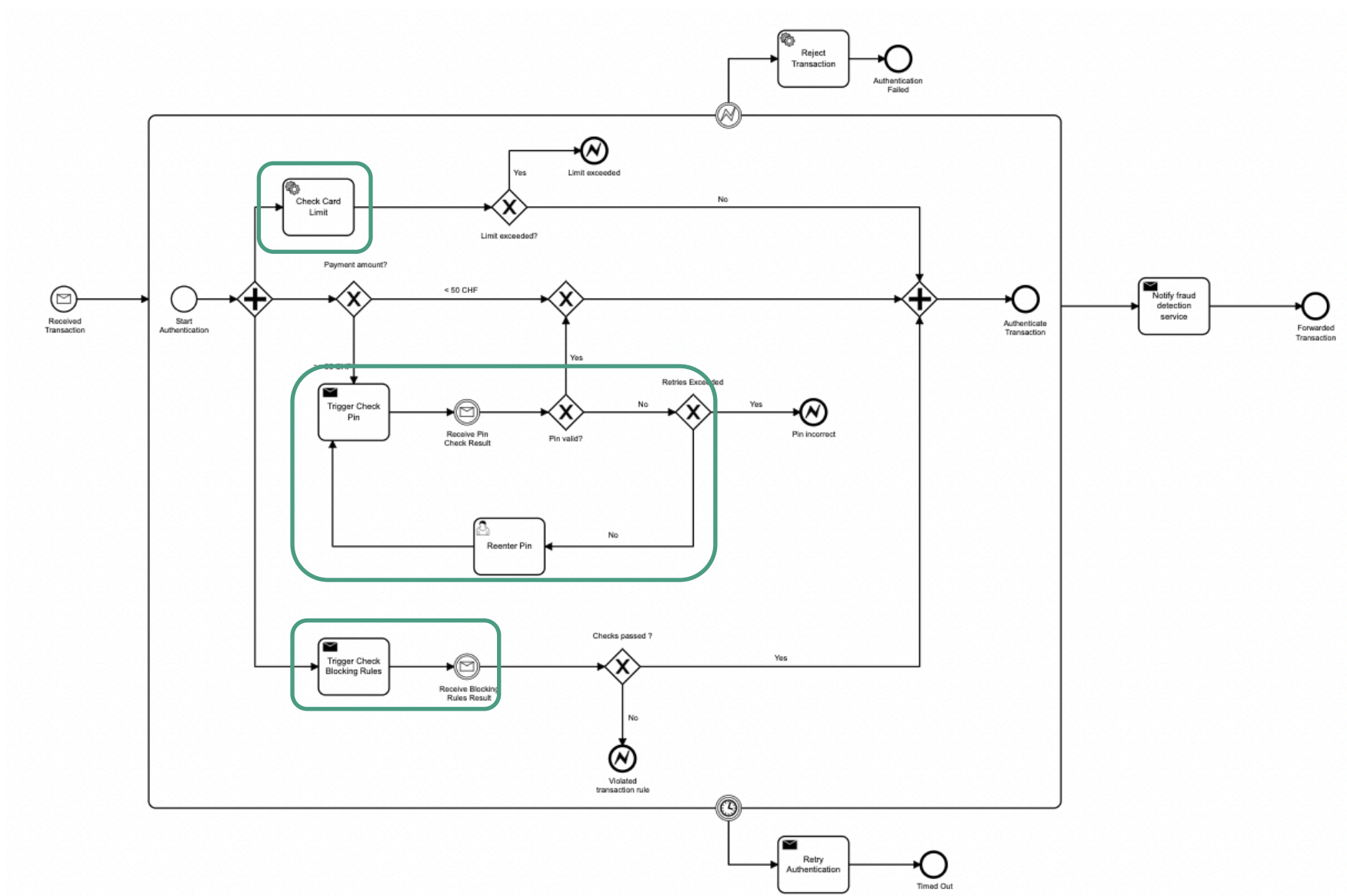


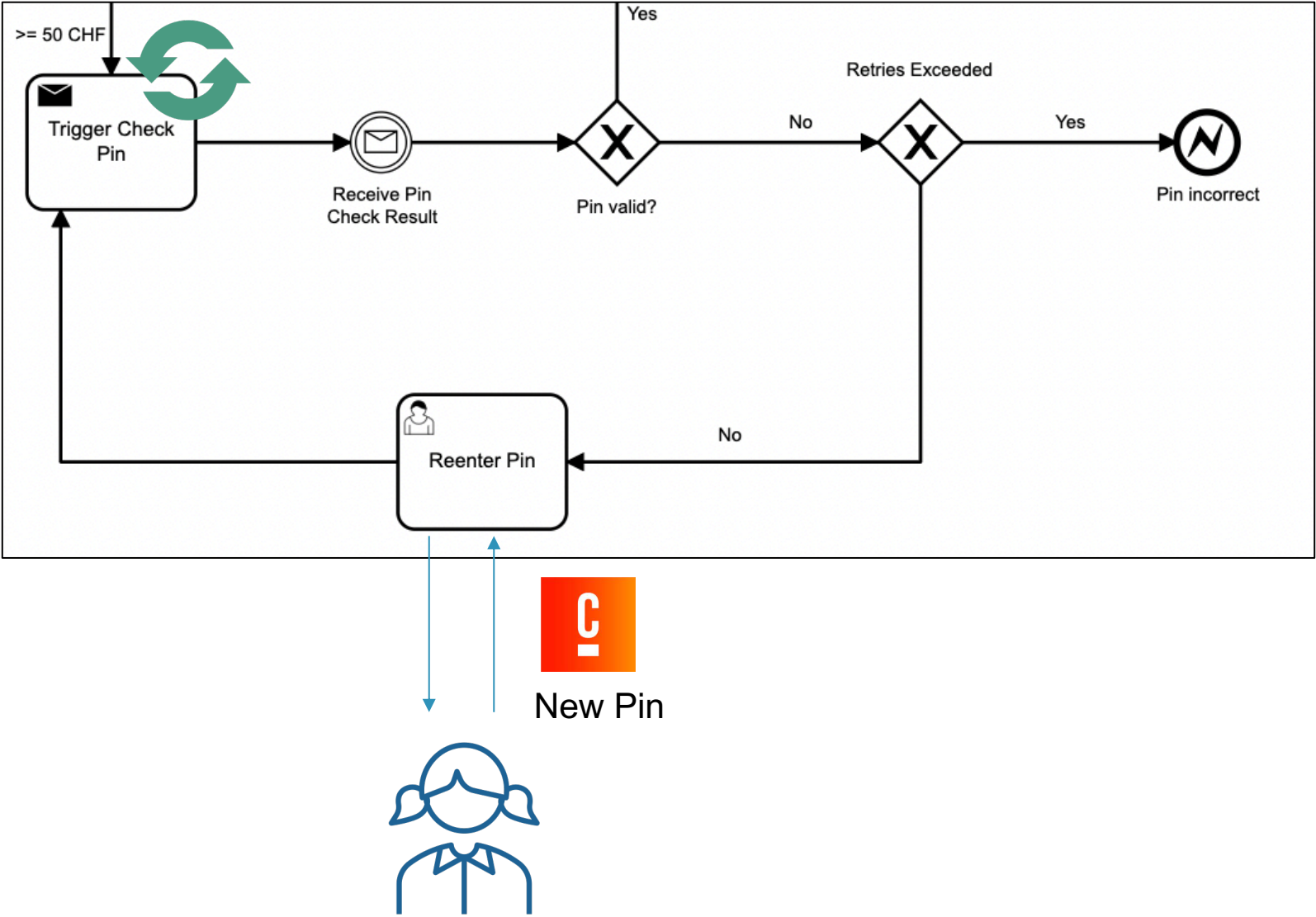


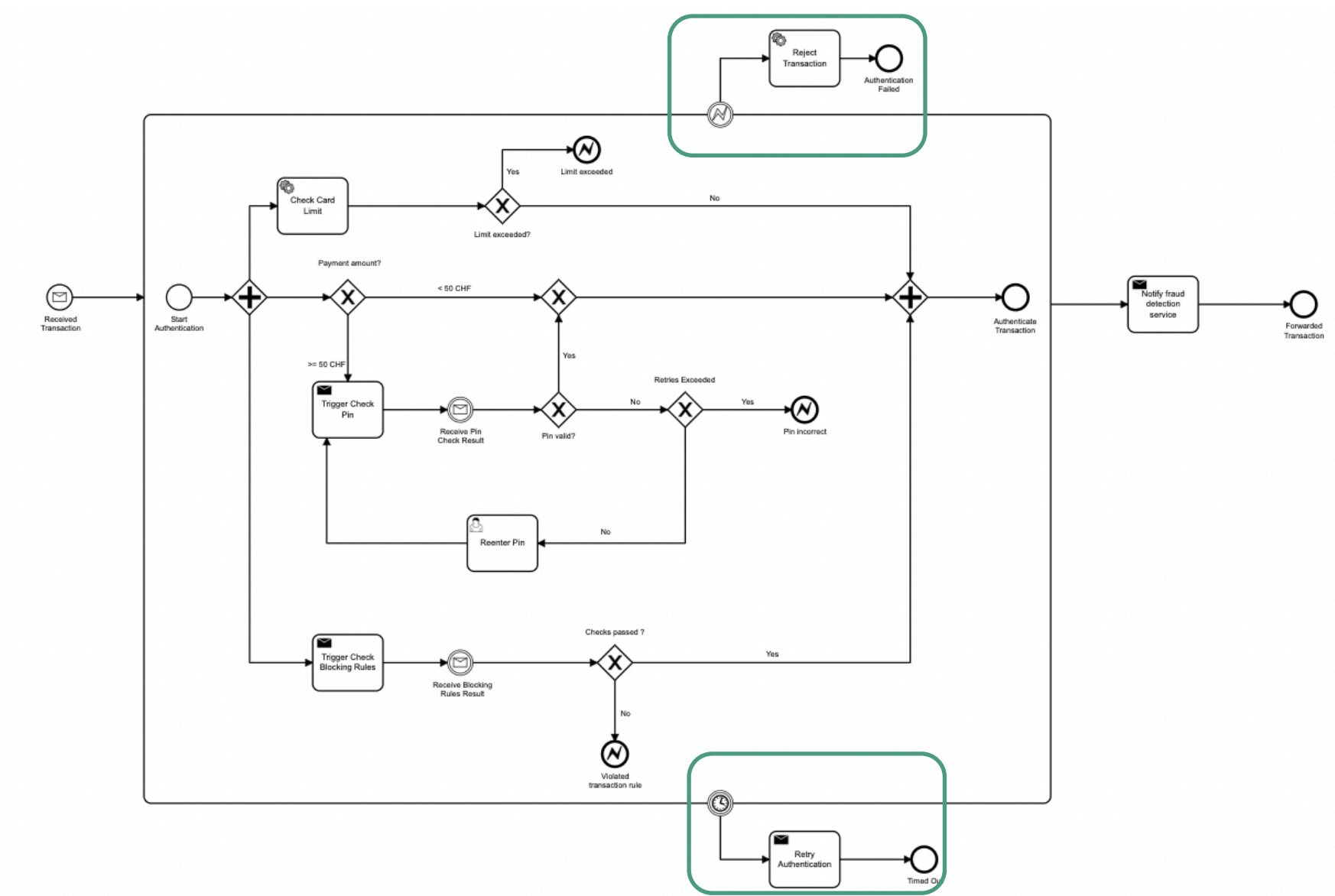












# Fraud Detection Workflow (Choreographed)

