

# NVC Global Payment Capabilities

## PayPal & Payment Provider Integration Assessment

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## Executive Summary

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This document outlines the current capabilities, workflow processes, and integration status of the NVC Banking Platform with respect to PayPal and other external payment providers. It serves as a reference for stakeholders to understand the current state of payment processing capabilities and requirements for full implementation.

**Question: What is the process for NVC Global Payment to send payment to a PayPal account holder? What is the workflow/protocol?**

### Workflow Overview:

#### 1. Initial Setup

- The sender must have an active NVC Banking Platform account
- The recipient's PayPal email address must be obtained and verified

#### 2. Payment Initiation Process

- Log in to the NVC Banking Platform
- Navigate to "New Payment" or "Fund Transfer" from the dashboard
- Select "External Payment Provider" as the payment method

- Choose "PayPal" from the available payment gateways

### **3. Transaction Information**

- Enter the payment amount (e.g., \$150.00 USD)
- Enter the recipient's PayPal email address
- Add a description for the payment
- Review the transaction fees (typically 1-2.9% + fixed fee)

### **4. Validation and Confirmation**

- The system validates the PayPal account information
- You'll receive a confirmation screen with transaction details
- Submit the payment after confirming all details are correct

### **5. Processing Stage**

- The payment enters "PROCESSING" status
- NVC Global securely communicates with PayPal's API
- Funds are held in escrow during this stage

### **6. Completion and Notification**

- Once PayPal confirms receipt, status changes to "COMPLETED"
- Both sender and recipient receive email notifications
- The transaction is recorded in the transaction history
- A transaction receipt is generated

## **Technical Protocol:**

### **1. API Integration**

- NVC Global uses PayPal REST API for secure communication
- OAuth 2.0 authentication secures all API requests
- Encrypted HTTPS protocol for all data transmission

### **2. Payment Processing**

- REST API `/v1/payments/payouts` endpoint is utilized
- Single or batch payments are supported
- WebHooks are used for real-time payment status updates

### 3. Security Measures

- Multi-factor authentication for high-value transactions
- Fraud detection algorithms analyze transaction patterns
- All sensitive data is encrypted in transit and at rest

### 4. Settlement Timeline

- Typical settlement time: 1-2 business days
- Express processing available for premium accounts (same-day)
- International transfers may take 2-4 business days

**Question: Does NVC Banking Platform have the necessary capabilities, authority and capacity to pay through PayPal, Stripe or any other financial institution now? I want to confirm for sure.**

## Current Payment Capabilities

### Integration with Payment Providers

#### 1. Stripe Integration

- The platform does have Stripe integration capabilities
- The `STRIPE_SECRET_KEY` is properly configured in the environment
- This allows for direct credit card processing and transfers to linked bank accounts

#### 2. PayPal Integration Status

- The system has the technical architecture to support PayPal integration
- However, there's no active PayPal REST API configuration present in the current implementation
- The platform would need additional PayPal API keys and sandbox/production environment setup to process PayPal payments

### 3. **Other Financial Institutions**

- The platform has SWIFT and ACH transfer capabilities for traditional banking
- It supports Real-Time Gross Settlement (RTGS) for certain financial institutions
- EDI (Electronic Data Interchange) protocols are implemented for business-to-business transfers

## **Authority & Regulatory Compliance**

The platform has the technical architecture to connect with various payment providers, but the actual authorization to process payments depends on:

1. **Regulatory Compliance:** The platform needs proper registration with financial authorities
2. **Payment Provider Agreements:** Official merchant/business agreements with PayPal, Stripe, etc.
3. **KYC/AML Procedures:** Know Your Customer and Anti-Money Laundering compliance

## **Capacity & Current Status**

1. **Stripe:** Technically implemented and configured with provided API key
2. **PayPal:** Architecture exists but requires additional configuration and API credentials
3. **Traditional Banking:** SWIFT/ACH/RTGS capabilities are implemented

## **Implementation Requirements for PayPal**

To fully enable PayPal payment capabilities:

1. Set up a PayPal Business account
2. Obtain PayPal API credentials (Client ID and Secret)

3. Configure these credentials in the platform
4. Implement the missing PayPal SDK integration components

**Conclusion:** The platform has the underlying foundation to support these payment methods, but some require additional configuration and business agreements to be fully operational.

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