🌱 EVE PAY SDK – SAP ERP Integration Kit (v1)

White-Label Enterprise Edition

1️⃣ Overview

EVE Pay SDK enables SAP ERP systems to:

- Initialize payments from SAP processes
- Capture blockchain & fintech payments
- Log sustainability data
- Automatically allocate platform/partner fees
- Build SAP → ESG → financial audit trails

This kit supports:

- SAP ECC
- SAP S/4HANA
- SAP BTP
- SAP CRM & SRM workflow triggers

2️⃣ Integration Architecture (SAP ↔ EVE Pay)

Data flow:

```
SAP (Sales Order / Invoice / Asset)
    ↓
Outbound call: EVE Pay /api/v1/payments/init
    ↓
EVE Pay gateway + fee engine
    ↓
SAP returns payment_reference
    ↓
SAP stores reference → FI/CO tables
    ↓
SAP monitors /confirm endpoint
```

3️⃣ SAP Use Cases (Finance-Grade)

A. Sales order payments inside SAP SD

Trigger payment URL when sales order created.

B. Invoice clearing – FI/AR

SAP invoice sends net amount → EVE Pay → clears upon confirm.

C. Subscription billing / CRM

SAP CRM workflows trigger recurring payments.

D. Asset purchase via SAP MM

Procurement → payment gateway routing → ESG reward.

4️⃣ REST ENDPOINTS (SAP SAFE)

Initialize Payment from SAP

POST:

```
https://api.evegrocer.app/api/v1/payments/init
```

Body:

```json
{
  "external_ref": "SAP_SO_993722",
  "amount": 15500,
  "currency": "PHP",
  "customer_id": "CUST-2293",
  "region": "ph",
  "metadata": {
    "sap_user": "JSMITH"
  }
}
```

Response:

```json
{
  "status": "initialized",
  "payment_reference": "EVE-17345392836",
  "next_action": "collect_payment",
  "fees": {
    "platform": 232.5,
    "partner": 77.5,
    "total": 310
  },
  "net_amount": 15190
}
```

5 SAP ABAP / HTTP EXAMPLE

```
DATA(lo_client) = cl_http_client=>create_by_url(
  EXPORTING url = 'https://api.evegrocer.app/api/v1/payments/init'
).

lo_client->request->set_header_field( name  = 'Content-Type'
                                      value = 'application/json' ).

lo_client->request->set_cdata(
'{"external_ref":"SAP_SO_993722","amount":15500,"currency":"PHP"}'
).

lo_client->send( ).
lo_client->receive( ).

DATA(response) = lo_client->response->get_cdata( ).
```

6 SAP Workflow Example

Trigger URL on event:

- Sales order → new

- Purchase request → approved

- Invoice → due

- CRM contract → renewal date

SAP user never sees Web3 complexity.
All logic lives inside your SAP workflow tables.

7 SAP Ledger Storage Design

SAP receives:

- `amount`

- `fees`

- `net_amount`

- `region`

- `payment_reference`

These can write into:

- BKPF (Accounting Document Header)

- BSEG (Accounting Document Segment)

- VBRK (Billing Header)

- VBRP (Billing Items)

- Z-tables for carbon impact

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8 SAP Return Confirmation

POST

`/api/v1/payments/confirm`

SAP sends:

```
{
  "external_ref": "SAP_SO_993722",
  "payment_reference": "EVE-17345392836",
  "txHash": "0xHASH..."
}
```

EVE Pay responds:

`status: confirmed`

SAP clears invoice.

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9 SAP Security Notes

- No private keys require storage in SAP

- HTTPS encrypted

- EVE Pay handles PCI scope

- SAP remains ERP of record

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10 SAP Deployment Workload

Estimated IT:

- SAP Basis → firewall allowlist

- ABAP developer → 30 lines code

- CRM → webhook routing (optional)

- Finance → no workflow disruption

1️⃣1️⃣ Sustainability Reporting Benefits

SAP CFO sees:

- carbon score per purchase

- tokenized ESG record

- real-time NAV

- recycling incentives

- procurement transparency

1️⃣2️⃣ EVE Pay Competitive Advantage

SAP rarely integrates sustainability natively.

Your platform becomes:

✔️ Stripe for blockchain
✔️ ESG scoring engine
✔️ multi-rail payment gateway
✔️ SAP-grade corporate finance rails

No other ERP fintech does this.

1️⃣3️⃣ SAP White-Label Package Includes:

- PDF

- ABAP snippet library

- Postman collection

- OpenAPI.json

- fee structure

- ledger mapping

🌍 Branding Notes (PDF export style)

PDF visual identity:

- Green header bars
- SAP watermark
- Tables
- Flow diagram
- Example screenshot placeholders
- Crisp corporate layout