

I. Overview & Objectives

This document provides a **structured plan** to establish an API connection between **Sparebank (account: 18130261554)** and **Conta**, enabling **automated invoicing, payment tracking, and royalty settlements**. This ensures **seamless financial operations**, compliance with **Norwegian regulations**, and efficient revenue collection.

Primary Goals:

1. **Establish an API connection** between Sparebank and Conta for **real-time payment processing**.
 2. **Automate invoice generation** for licensing and royalty settlements.
 3. **Schedule automated payment reminders** for pending transactions.
 4. **Ensure tax compliance** and integration with Skatteetaten for VAT reporting.
 5. **Enable fraud detection & financial security protocols**.
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II. API Integration Setup

1. Register API Access for Sparebank & Conta

Sparebank API Setup:

- Visit developer.sparebank1.no and register for **Open Banking API access**.
- Authenticate with **BankID** and approve Conta as a **trusted financial application**.
- Enable the following API endpoints: - **Account Information API**: Fetch account transactions.
- **Payments API**: Initiate direct payments from Conta invoices.
- **Webhooks API**: Receive real-time notifications for incoming payments.

Conta API Setup:

- Log in to [Conta.no](https://conta.no) and go to **Settings → Integrations → API Access**.
 - Select **Sparebank1 API (via Aiiia/Nordic API Gateway)**.
 - Enter the **Sparebank account number: 18130261554**.
 - Authenticate via **BankID** to connect Conta to Sparebank.
 - Enable automatic **bank reconciliation & payment tracking**.
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2. Automate Invoice Generation for Licensing & Royalties

Set Up Invoice Templates in Conta:

- Go to **Conta → Settings → Invoice Settings**.
- Create a **Licensing & Royalty Invoice** template: - **Customer Details**: Auto-fetch from contract agreements.
- **Invoice Due Date**: Net 7, Net 14, or custom (configurable per contract).

- **Bank Account Details:** Pre-fill **Sparebank Account (18130261554)**.
- **Automatic VAT Calculation:** Ensure compliance with Skatteetaten.
- **EHF Invoice Format:** Enable for Norwegian business clients.

Enable Recurring Invoices for Licensing Fees:

- In **Conta** → **Recurring Invoices**, schedule:
- **Monthly, quarterly, or annual** licensing fee invoicing.
- Auto-generate invoices and send via **email, EHF, or SMS**.
- API fetches real-time payment status and updates automatically.

Enable Smart Contract-Based Invoice Verification:

- **Integrate blockchain-based validation** for high-value licensing deals.
 - Use **Ethereum-based smart contracts** to **timestamp transactions**.
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3. Schedule Automated Payment Reminders

Enable Payment Follow-Ups:

- Configure in **Conta** → **Payment Reminders**:
- **1st Reminder:** 3 days before due date.
- **2nd Reminder:** On due date.
- **Final Notice:** 5 days after due date (optional penalty fee applied).

Activate Late Payment Fees & Interest Charges:

- Apply late fees per Norwegian law (Act on Payment Terms).
- Send automated notices to overdue clients.

Real-Time Payment Monitoring:

- Enable Sparebank API **Webhooks** to get instant payment updates.
 - Conta syncs status, marking invoices as **paid or overdue**.
 - If overdue, Conta triggers **automated reminders** via email or SMS.
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4. Tax Compliance & Skatteetaten Integration

Enable Automatic VAT & Income Tax Reporting:

- Link Conta with **Skatteetaten** for real-time MVA reporting.
- AI-based tax tracking ensures **automated filing for quarterly VAT returns**.

API-Based Income Tax Estimation:

- Sparebank transactions auto-sync with Conta to track taxable income.
- Predicts upcoming tax obligations and ensures compliance.

Secure Automated Tax Filings

- AI cross-verifies invoices and tax rates.
 - Generates compliant tax reports for submission to **Norwegian tax authorities**.
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5. Fraud Prevention & Financial Security

Multi-Layered Fraud Detection AI:

- AI scans transactions in real time for **anomalous activity**.
- Auto-blocks suspicious transactions and alerts the user.
- Uses **blockchain & AI risk assessment** to **validate all incoming payments**.

Decentralized Identity Verification for Secure Transactions:

- Uses **multi-signature authentication** for large transactions.
- AI-based identity verification ensures **compliance & security**.

Quantum-Resistant Encryption for API Communication:

- All financial transactions are encrypted using **quantum-resistant protocols**.
- Ensures **long-term security against cyber threats**.

III. Technical Implementation (API Endpoints & Calls)

Sparebank API Endpoints (Example Calls)

Fetch Account Transactions:

```
GET /accounts/18130261554/transactions
Authorization: Bearer {API_KEY}
```

Initiate Payment from Conta:

```
POST /payments/initiate
Authorization: Bearer {API_KEY}
Content-Type: application/json
{
  "from_account": "18130261554",
  "to_account": "{client_account}",
  "amount": 5000,
  "currency": "NOK",
  "message": "Licensing Fee - Invoice #12345"
}
```

Webhook for Payment Confirmation:

```
POST /webhooks/payment-received
Authorization: Bearer {API_KEY}
Content-Type: application/json
{
  "invoice_id": "12345",
  "status": "PAID"
}
```

IV. Next Steps & Deployment Timeline

Immediate Tasks:

Register API access with Sparebank & Conta.
Configure automatic invoice generation for licensing settlements.
Enable API-based transaction monitoring.
Deploy automated payment reminders & late fee system.
Activate fraud detection AI & cybersecurity layers.
Test all API connections & go live by April 2025.

Next Major Update Scheduled: April 2025

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