

# EuroStyle Fashion Systems

European Fashion Retail Technology Solutions

## EuroStyle ERP System

Comprehensive Enterprise Resource Planning solution for European fashion retail operations. Manages customers, products, inventory, orders, and store operations across multiple countries with full multi-currency and multi-language support.

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# Table of Contents

1. Executive Summary	3
2. System Architecture Overview	4
3. Data Model Specification	6
4. API Reference	12
5. Integration Guidelines	18
6. Security & Compliance	22
7. Performance & Scalability	24
8. Support & Maintenance	26
Appendix A: Sample Data	28
Appendix B: Error Codes	30

# 1. Executive Summary

The EuroStyle ERP System is a comprehensive enterprise resource planning solution designed specifically for European fashion retail operations. The system manages the complete retail lifecycle from product catalog management through customer acquisition, order processing, inventory management, and store operations. **Key Features:**

- Multi-country operations (Netherlands, Germany, France, Belgium, Luxembourg)
- Complete customer lifecycle management with GDPR compliance
- Advanced product catalog with fashion-specific attributes
- Real-time inventory tracking across 47+ retail locations
- Comprehensive order management and fulfillment
- Store operations management and performance analytics
- Campaign management and marketing automation
- European geography and logistics integration
- Fashion calendar and seasonal planning tools

# 2. System Architecture Overview

The EuroStyle ERP System is built on a modern, scalable architecture designed for high-performance retail operations. The system utilizes ClickHouse as its primary analytics database, providing real-time insights and high-speed query performance for business intelligence and reporting. **Technical Architecture:**

- Database: ClickHouse (columnar analytics database)
- API Layer: RESTful APIs with JSON/XML support
- Security: OAuth 2.0, role-based access control
- Integration: Standard ETL processes, real-time event streaming
- Scalability: Horizontal scaling, cloud-ready deployment
- Monitoring: Comprehensive logging and performance metrics

## 2.1 Core Data Entities

# 4. API Reference

The EuroStyle ERP System provides comprehensive REST APIs for integration with external systems. All APIs use standard HTTP methods and return JSON responses. **Base URL:** <https://api.eurostyle-erp.com/v2/> **Authentication:** OAuth 2.0 Bearer Token **Core API Endpoints:**

Endpoint	Method	Description
/customers	GET, POST	Customer management operations
/products	GET, POST	Product catalog management
/orders	GET, POST, PUT	Order processing and tracking
/inventory	GET, PUT	Inventory levels and movements

/stores	GET	Store information and performance
/campaigns	GET, POST	Marketing campaign management

## 5. Integration Guidelines

Integration with the EuroStyle ERP System follows industry best practices for enterprise software integration. **Integration Patterns:**

- Real-time API calls for transactional data
  - Batch processing for bulk data imports/exports
  - Event-driven notifications for critical updates
  - Scheduled synchronization for reference data
- Data Formats:**
- JSON (recommended for API calls)
  - XML (supported for legacy systems)
  - CSV (batch imports/exports)
  - EDI (B2B partner integration)