

# KodeMed







## Clinical Case Coding Platform

For CTOs, IT Administration & DevOps

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# What is KodeMed?

Complete clinical coding solution for Swiss hospitals

-  **Interactive ICD-10, CHOP and ATC coding with autocomplete**
-  **SwissDRG, TARPSY and ST Reha real-time grouping**
-  **SpiGes / BFS format compliance (Swiss Federal Statistics Office)**
-  **Multilingual interface: German, French, Italian, English**
-  **OAuth2 / OpenID Connect for secure, centralized authentication**
-  **Post-coding webhook for automatic result delivery to HIS**

# Platform Components

Six integrated services



## KodeMed.Server

REST API, WebSocket, sessions, audit



## KodeMed.DataServer

ICD-10, CHOP, ATC, SwissDRG catalogs



## KodeMed.GrouperServer

SwissDRG, TARPSY, ST Reha grouping



## KodeMed.CodingUI

React/Vite web frontend (14+ data blocks)



## KodeMed.Interface

COM DLL for HIS integration (.NET / VB / C#)



## KodeMed.CodingClient

System tray app, WebSocket, webhook

# Integration Options

Two paths to integrate with your Hospital Information System

## Option A: COM DLL

Direct HIS Integration

- In-process DLL loaded by HIS application
- Works from .NET, VB6, VBA, C#, Delphi
- DoCodingWithFormat() opens auth + coding UI
- GetResults() returns coded data

## Option B: REST / WebSocket

3rd Party Apps via CodingClient

- POST session data to server REST API
- Server pushes to CodingClient via WebSocket
- Any language/platform (Java, Python, ...)
- Real-time status updates

# Security & Compliance

Enterprise-grade security for healthcare data

## Authentication

- OAuth2 / OpenID Connect (PKCE flow)
- Keycloak, Auth0, Azure AD, Okta compatible
- Group-based access control (admin, coder, approver, viewer)
- Token auto-refresh, session expiry

## GDPR / nDSG Compliance

- Data minimization (webhook opt-in fields)
- Audit trail for all session events
- SSRF protection on webhook URLs
- No patient data stored on server
- HTTPS / WSS encryption everywhere

# Deployment

Flexible deployment for any infrastructure

## Server (Linux)

- Docker Compose deployment
- Native install via install-kodemed.sh
- PostgreSQL or H2 database
- Reverse proxy with Apache/nginx

## Client (Windows)

- Portable self-contained EXE
- No admin rights required
- Auto-setup: COM registration + env vars
- Citrix / VDI compatible

# Cloud & Orchestration

Kubernetes, OpenShift & Harbor-ready container deployment

## Harbor Registry

- kodemed/server:latest
- kodemed/dataserver:latest
- kodemed/grouper:latest
- kodemed/codingui:latest

*Trivy scan + Cosign/Notary*

pull >>>

## Kubernetes / OpenShift

*Ingress / Route*

Service	HPA	Port
kodemed-server	Yes	:8080
kodemed-dataserver	Yes	:8081
kodemed-grouper	-	:8082
kodemed-ui	-	:3000

*PostgreSQL (StatefulSet / external)*

- All services ship as Docker images (OCI-compliant)
- Deploy to Kubernetes with Helm charts or plain manifests

- Private Harbor registry for image storage & distribution
- Vulnerability scanning (Trivy) on every push

# KodeMed

## Ready for Integration?

Contact our team for a technical demo and integration planning session.

[info@kodemed.ch](mailto:info@kodemed.ch)

[www.kodemed.ch](http://www.kodemed.ch)

KodeMed AG • Switzerland