CASE STUDY · AI UNDER TISAX AL3

Cloud AI without giving up *prototype security* — a TISAX AL3 design for a tier-1 automotive supplier.

A Microsoft Copilot and Claude AI architecture for a small automotive supplier serving German OEMs — a three-tier hybrid that keeps prototype photos and classified test data on-prem while running productivity and analytics in TISAX-certified EU cloud regions.

CLIENT	SECTOR	STACK	DEPLOYMENT
Tier-1 automotive supplier · anonymised	Automotive · prototype & secret parts	M365 E5 · Azure OpenAI · Claude / AWS Bedrock	4 phases · Q3 2026 → Q2 2027

TISAX *AL3*	8 *use cases*	2 *paths*	12 *mo.*
COMPLIANCE HELD	MAPPED TO TIERS	VENDOR OPTIONS	ROADMAP
VDA standard for very-high-protection automotive data.	Each scored for TISAX risk and AI fit before deployment.	Single-vendor fast track or best-in-class AI.	Foundation → Copilot → AI analytics → portals.

THE CHALLENGE

The client is a **small tier-1 automotive supplier** (50–200 employees) serving German OEMs and handling prototype and secret parts under **TISAX AL3** — the highest VDA protection level, audited on-site. The IT estate is **fully on-premise**; an M365 migration is planned but not yet started. Test protocols and large-volume data evaluation are still manual.

- **Cloud-vs-compliance dilemma** — prototype photos and classified test data must never leave the perimeter, yet OEMs expect AI-grade speed and quality.
- **Manual test protocol assembly** — photo sorting into Word docs, basic VBA macros, hand-built charts.
- **Manual data evaluation** — Excel plus specialist Python scripts, no real-time anomaly detection.
- **English-language friction** with German OEM customers — emails, meeting minutes and reports drafted by hand.
- No customer-facing dashboards; reporting to OEMs is bespoke each cycle.

Can we put AI to work in productivity and analytics — and **stay TISAX AL3 compliant** *— without exposing prototype IP to the cloud?*

THE SOLUTION

RAIM Consulting Group designed a **three-tier hybrid architecture**: data flows up only as far as its sensitivity permits. Two vendor paths sit on top of the same security model.

Data follows sensitivity. The perimeter stays where the prototype is.

01 **ON-PREMISE ZONE — HIGHEST**
Prototype photos, secret CAD files, classified test data. Local NAS, VBA + Python for sorting and protocol assembly. **Never leaves the perimeter.**

02 **PRIVATE CLOUD EU — HIGH**
Azure OpenAI (EU DataZone) or Claude via AWS Bedrock (Frankfurt). Numerical test data only — statistical evaluation, anomaly detection, chart generation, AI-written summaries.

03 **M365 EU BOUNDARY — STANDARD**
Copilot for Outlook, Teams and SharePoint — drafting English emails to OEMs, meeting transcripts, translation, document search. DLP and sensitivity labels enforced.

04 **GOVERNANCE & AUDIT**
Entra ID + Conditional Access, Microsoft Purview DLP, sensitivity labels, audit logs, retention policies. All cloud providers are **TISAX AL3 certified** in EU regions.

USE-CASE MAP · 8 WORKFLOWS ANALYSED

SOLUTION · PRIORITY · TISAX RISK

Where AI lands first — and how compliance is held in each one.

#	USE CASE	PROPOSED SOLUTION	PRIORITY	TISAX RISK NOTE
01	TISAX / ISO 27001 foundation	Azure EU + M365 E5 Security	HIGH	*Cloud migration scope & DLP configuration*
02	M365 + Copilot deployment	M365 E5 + Copilot licences	HIGH	*EU Boundary, Copilot data-routing controls*
03	Test protocol automation	On-prem VBA + Python + AI	CRITICAL	*Prototype photos stay on-prem — non-sensitive data only to cloud*
04	Large-volume data evaluation	Azure OpenAI / Claude + Python	HIGH	*Numerical test data routed to EU AI region only*
05	Online monitoring & dashboards	Power BI + Azure IoT Hub	MEDIUM	*Customer-data sharing controlled per OEM*
06	Business emails & meetings	Copilot for Outlook + Teams	MEDIUM	*Low-sensitivity business communication*
07	User training & prompt library	Custom training programme	MEDIUM	*No sensitive data — pure enablement*
08	Test & deviation evaluation	AI models + domain knowledge	MEDIUM	*Test results may contain IP — handled in private cloud*

TWO SOLUTION PATHS

SAME SECURITY MODEL · DIFFERENT AI ENGINE

OPTION A · FAST TRACK

Microsoft-centric

M365 E5 + COPILOT · AZURE OPENAI (EU DATAZONE)

- Single-vendor governance & billing
- Faster deployment timeline
- Native M365 integration end-to-end
- On-premise zone for prototype data preserved

BEST FOR · SIMPLICITY & SPEED

OPTION B · BEST-IN-CLASS

M365 + Claude via AWS Bedrock

M365 E5 + COPILOT · CLAUDE ON AWS (FRANKFURT)

- Superior reasoning on complex analytics
- 200K-token context for large datasets
- Dual-cloud governance, zero data retention
- On-premise zone for prototype data preserved

BEST FOR · AI QUALITY & COMPLEX ANALYSIS

IMPLEMENTATION ROADMAP · 4 PHASES

Q3 2026 — Foundation
TISAX GAP · M365 SETUP · DLP · ENTRA ID

→ **Q4 2026 — Copilot & productivity**
PILOT ROLLOUT · TRAINING · TRANSLATION

→ **Q1 2027 — AI analytics**
AZURE OPENAI / BEDROCK · TEST PROTOCOL PIPELINE

→ **Q2 2027 — Monitoring & portals**
POWER BI · OEM PORTALS · FULL AUDIT

No prototype data leaves the perimeter. EU-only cloud processing for everything else. All cloud platforms in the design are TISAX AL3 certified in EU regions (Azure DE/IE, AWS Frankfurt). Compliance with *ISO 27001*, GDPR and the EU AI Act is mapped into Phase 1 and audited end-to-end in Phase 4.

ABOUT RAIM CONSULTING GROUP

RAIM Consulting Group is a Prague-based AI and digital transformation advisory. We combine strategy, engineering and adoption in single engagements — turning AI capability into measured business outcomes. We are vendor-neutral and specialise in regulated environments — automotive, public sector, finance — where compliance and AI must co-exist.

HOW TO GET STARTED

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