

CYBER RISK QUANTIFICATION IN ACTION

# 262 million PII records. Three critical gaps. A binding-ready quote in *under 19 minutes.*

A large-scale furniture retailer with EUR 40–50B revenue, 262.3M customer records under GDPR and PCI-DSS scope, and three material underwriting gaps — EOL asset reliance, unconfirmed 24/7 SOC monitoring, and no phishing response playbook. DeRISK UWA Agentic produced a fully structured, actuarially quantified recommendation — explicit EAL, per-line EUR premiums, and three time-bound binding conditions with defined underwriting consequences.

**UNDERWRITING VERDICT**  
**Quote with Conditions**  
3 conditions precedent

**RISK TIER**  
**Moderate-High**  
6.2 / 10 overall risk rating

**DATA SUFFICIENCY**  
**Medium**  
Core governance & control data provided; operational details incomplete

ASSESSMENT DATE	REPORT ID	COVERAGE LINES	RUN TIME
10 April 2026	f635bc13 · a0db	7 lines structured	18 min 42 sec

ACTUARIAL OUTPUT

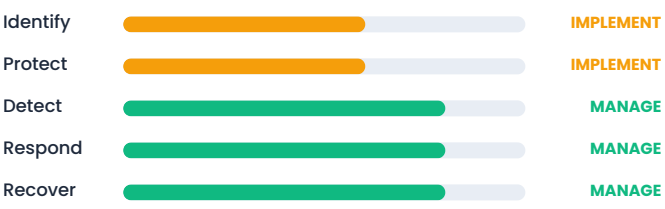
## What the model found

<p>Expected Annual Loss (EAL)</p> <p><b>€9.2M</b></p> <p>Std dev <b>EUR 6.8M</b> CoV <b>0.74</b></p>	<p>Avg loss when event occurs</p> <p><b>€15.9M</b></p> <p>Ransomware <b>EUR 18.5M</b> Data breach <b>EUR 22.0M</b></p>	<p>Annual loss event probability</p> <p><b>58%</b></p> <p>Coeff. of variation <b>0.74</b> Dominant: <b>ransomware 45%</b></p>	<p>Total annual premium</p> <p><b>€3.1M–€4.0M</b></p> <p>Base EUR 3.85M <b>+10% loading</b> pending conditions</p>
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"The applicant is a large, sophisticated retail organization with mature cyber governance and strong technical controls. The absence of material cyber losses in the past 5 years, combined with continuous backup strategies and formal incident response planning, demonstrates effective risk management. However, reliance on end-of-life systems, unconfirmed 24/7 security monitoring, and missing phishing response procedures create residual vulnerability that must be addressed prior to binding."

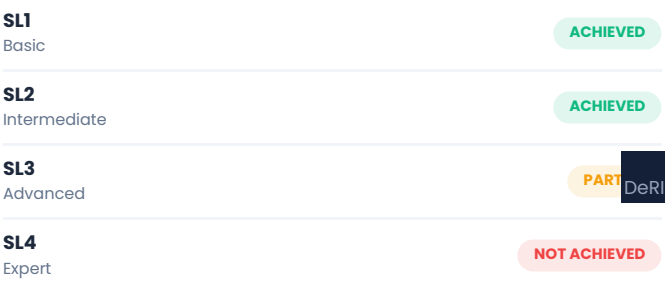
DeRISK UWA Agentic Actuarial Table · Section XI Risk Opinion Summary · Report f635bc13-a0db-460d-81ab-58b430c18029

### Cyber Maturity — NIST CSF Assessment



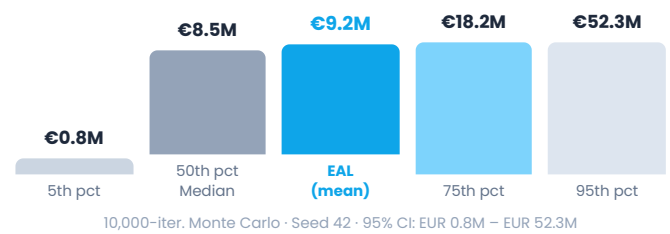
Overall NIST maturity: **IMPLEMENT-MANAGE (3.5/5)**

### IEC 62443 Security Level Assessment



Estimated current level: **SL2-SL3 transitional** · Confidence: MEDIUM

### Loss Exceedance Profile (OEP)



**48-hour** recovery modeled — likely scenario

**KEY FINDING**  
DeRISK UWA Agentic modeled a 48-hour ransomware recovery at **EUR 2.0M/day** on the EUR 20M BI sub-limit — total likely BI loss EUR 4.0M. Continuous Rubrik + cloud backups reduce recovery time to **24–48 hours** in most scenarios.

COVERAGE RECOMMENDATIONS

COVERAGE LINE	LIMIT	RETENTION	EST. PREMIUM
<b>Cyber Liability (General)</b>	EUR 50M	EUR 5M	<b>EUR 2.8–3.2M</b>
<b>Business Interruption</b> (sub-limit)	EUR 20M	EUR 2M	Included
<b>Ransomware Extortion</b> (sub-limit)	EUR 10M	EUR 1M	Included
<b>Regulatory Fines &amp; Penalties</b>	EUR 15M	EUR 2M	Included
<b>Notification &amp; Credit Monitoring</b>	EUR 5M	EUR 0.5M	Included
<b>Cyber Extortion</b> (standalone)	EUR 5M	EUR 1M	<b>EUR 0.3–0.5M</b>
<b>Third-Party Liability</b> (MSSP / vendor)	EUR 10M	EUR 2M	Included
<b>Total estimated annual premium</b>			<b>EUR 3.1M – 4.0M</b>

3 MANDATORY BINDING CONDITIONS

**1 SOC/MSSP Monitoring Attestation**

Signed letter from CISO or CTO confirming 24/7 security monitoring (SOC or MSSP), incident detection SLA target <1 hour, escalation procedures to IR team, and name and contact of monitoring provider.

**5 business days from quote issuance**  
Quote expires — resubmission required on miss

**2 EOL Systems Remediation Roadmap**

Detailed 12-month plan: EOL inventory (OS, software, hardware) with business criticality, replacement timeline with quarterly milestones, interim compensating controls, and CFO/CIO sign-off with budget allocation.

**10 business days from quote issuance**  
EUR 2M sub-limit on cyber liability until remediation complete

**3 Phishing Incident Response Playbook**

Formal documented process: detection & triage, containment (account lockdown, email recall, credential reset), investigation & forensics, communication & escalation matrix, aligned with NIST 800-61. CISO or CSO approval signature required.

**10 business days from quote issuance**  
EUR 1M sub-limit on cyber liability until playbook approved

ACTUARIAL MODEL PARAMETERS

<b>Breach frequency (<math>\lambda</math>)</b> 0.58/yr · Poisson	<b>Iterations · Seed</b> 10,000 · Seed 42	<b>Loss distribution</b> Log-normal $\mu$ = EUR 12M
<b>Confidence percentiles</b> 5th / 50th / 95th	<b>BI daily cost (likely)</b> EUR 2.0M / day	<b>Severity -- BI corr.</b> r = 0.65 (ransomware-dom.)

WHY THIS MATTERS

What DeRISK UWA Agentic delivers — even with operational data gaps

**€9.2M**

**Explicit EAL — not a score**

Most tools return a risk tier. DeRISK UWA Agentic returns a EUR figure with a full exceedance distribution: EUR 0.8M at the 5th percentile, EUR 8.5M at the median, EUR 52.3M at the 95th — a precise anchor for every limit, retention, and loading decision across all 7 coverage lines.

**SL2 → 3**

**IEC 62443 path — evidence-mapped**

NIST CSF and IEC 62443 assessed simultaneously. SL1 and SL2 achieved. SL3 partial — SOAR, WAF, and BOT Manager deployment cited as evidence; residual gap is unconfirmed 24/7 monitoring. SL4 not achieved: zero-trust architecture and advanced threat modeling required.

**3**

**Conditions with deadlines — not requests**

Each binding condition carries a specific deadline (5 or 10 business days from quote issuance) and an explicit underwriting consequence — EUR 2M sub-limit cap, EUR 1M sub-limit cap, or full quote expiry. Vague follow-up becomes a structured, trackable pre-bind workflow.