DERISK CRQ



OT CYBER-PHYSICAL RISK QUANTIFICATION

# Cyber risk in dollars — for the board, the CFO and the plant.

DeRISK CRQ quantifies the cyber-physical risk of an industrial company and each of its facilities as expected annual loss, value at risk and loss-exceedance curves. It runs on the FAIR standard, extended for operational technology, and is produced by named specialist AI agents on the DeRISK Intelligence Platform — with a full audit trail on every figure.

**10,000**
**Monte Carlo simulations**
FAIR engine, per quantification run

**49**
**loss types**
The DeRISK Consequence Model, 42 of them applying to OT

**5**
**operating levels**
Estimate to Engineering-Grade, set by input-data depth

**300+**
**DeRISK CRQ v5 implementations**
US and EU, calibrating the model

### Quantification on FAIR, extended for OT
Loss event frequency comes from the control instrument; loss magnitude is organized by the DeRISK Consequence Model, a cyber-physical loss taxonomy for industrial environments built on FAIR-MAM.

### Company and facility scope
Bottom-up quantification at the individual site from Level 3. Level 4 adds the facility's OT network data; Level 5 resolves the same model to IEC 62443 zones.

### Five role-based reports
CEO/Board, CISO, CFO, COO and Chief Risk Officer each receive their own report from Level 3 — same model, the sections each role acts on, delivered at the cadence of that role.

### Audited reasoning
Two Judge Agents audit the reasoning behind every scenario and every loss figure against the inputs of the run, and send incoherent work back. Every output carries run provenance.

WHO IT IS FOR

Industrial operators: CEO and Board, CISO, CFO, COO, Chief Risk Officer.

SECTORS

Power Generation · Electrical T&D · Manufacturing · Data Centers · Oil & Gas · Buildings · Transportation

OPERATING MODEL

Quantify. Reduce. Transfer. — DeRISK CRQ quantifies and, with DeRISK Consultant, reduces.


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SPECIFICATIONS

# DeRISK CRQ at a glance

| ITEM | SPECIFICATION |
|---|---|
| **Inputs** | • Public company data (filings, registers), user-overrulable at every level<br>• Question instruments: fewer than 10 questions at Level 2; 50 at Level 3 in the framework of your choice<br>• Documents such as cybersecurity maturity assessments; OT network data at facility level from Level 4 (IDS required; firewall, router, SIEM/XDR and diagrams optional) |
| **Outputs** | • Expected annual loss (EAL), value at risk (VaR), OEP and AEP loss-exceedance curves<br>• Levels 1–2: one company report · Levels 3–5: five role-based reports at company or facility scope, each stating entity, scope, level and dates |
| **Simulation** | FAIR-based quantification, 10,000 Monte Carlo simulations per run; scenario threat context from DeRISK Threat Intelligence |
| **Frameworks and standards** | • FAIR and FAIR-MAM, extended by the DeRISK Consequence Model (49 loss types, 12 modules)<br>• Level 3 instrument in three options: the DeRISK Control Model (developed with reference to NIST SP 800-82r3 and IEC 62443), NIST SP 800-82r3, or IEC 62443 |
| **Operating levels** | Level 1 · Estimate and Level 2 · Baseline (company scope, freemium) · Level 3 · Board-Grade, Level 4 · Evidence-Grade and Level 5 · Engineering-Grade (company and facility scope, premium) |
| **Deployment and access** | • SaaS on the DeRISK Intelligence Platform (AWS), on one governed data lake<br>• Single sign-on via Amazon Cognito, your identity provider (OIDC/SAML) or Microsoft Entra ID · web application, Microsoft Teams tab, Amazon QuickSight dashboards, Customer APIs |
| **Add-ons (Level 3 and above)** | DeRISK Consultant · DeRISK Scenario Simulator · Premium CTI Feed Subscription · Bring-Your-Own CTI Feeds |
| **Availability** | Levels 1–4 GA since 1 October 2026 · Level 5 GA 1 February 2027 · DeRISK Consultant 1 November 2026 · Scenario Simulator 1 February 2027 · Premium CTI Feed 1 April 2027 |
| **Trust and audit** | Human-in-the-loop by design · full audit trail on every figure · run and snapshot provenance · DeNexus™ holds SOC 2 Type II; the platform products complete SOC 2 Type II, ISO 27001 and ISO 27701 in January 2027 |

### Succession

DeRISK CRQ succeeds both DeRISK CRQ v5 and DeRISK QVM v5 and produces the content of both across the five reports. Risk-based vulnerability management arrives at Level 4.

### What it does not do

- It never ingests broker or insurer questionnaires — those are the input of DeRISK UWA.
- Levels are input-data depth, not scope tiers: you are served at the level your data supports.

## See the report your board would receive

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Request a demo


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