EY Blockchain Analyzer: Smart Contract & Token Review

Helping clients deploy complex smart contracts with greater confidence, security and efficiency with artificial intelligence (AI).



Shape the future with confidence

The better the question. The better the answer. The better the world works.

Solution summary

As smart contract adoption accelerates across blockchain ecosystems, many enterprises remain exposed to hidden risks. EY's AI-enabled Smart Contract & Token Review (SC&TR) solution helps organizations proactively detect vulnerabilities, validate logic, and reduce risk, while unlocking scalable secure adoption of Web3 technologies across NFTs, stablecoins, and other blockchain-enabled applications.

Business challenges

Smart contracts now power digital assets, automated transactions, and business logic, but even small bugs can cause major financial or reputational damage.

As complexity grows, many enterprises lack the tools, methodologies, or expertise for proper testing. Robust security reviews are essential, but still out of reach for most.

Key product features

- Security AI Assistant enables natural language interaction with your code for intuitive testing and review.
- AI agent automatically builds hundreds of test scenarios based on design requirements and commonly known vulnerabilities.
- Formal mapping module analyzes code, dependencies, and architecture for deep understanding.
- Executes transactions on our Mainnet simulator as if they were on the actual Blockchain Mainnet.
- Simulates historical or future blocks to test time-triggered scenarios.
- Performs easy regression testing for code updates with only a few clicks.
- Tests directly from the developer environment by connecting through the EY API.

Product description

EY Blockchain Analyzer: Smart Contract & Token Review (SC&TR) – Now powered by AI

Built on years of research and 100+ real-world tests completed, EY's solution now integrates advanced AI to accelerate and scale smart contract reviews. With a modern UI and API, clients can independently test contracts across EVM-based networks.

Combining rule-based logic, machine learning, and AI, the tool identifies vulnerabilities, evaluates functional intent, and optimizes contract performance.

Clients benefit from:

- Automated test generation
- Detailed diagnostics
- Modular reporting

All designed to enable faster, smarter, and more secure blockchain deployments.

Potential Business Benefits

Accelerated review cycles with AI: AI-enabled functionality increases speed and consistency in reviewing smart contracts, decreasing testing time and enabling faster go-to-market decisions.

Reduced risk exposure: Automated testing and structured analysis identifies bugs, vulnerabilities and logic flaws before deployment, helping clients mitigate security and operational risks.

Greater transparency and insight: Natural language interaction and modular outputs give a clearer understanding of smart contract behavior, logic, compliance, and gas impact.

Enhanced stakeholder confidence: Rigorous validation can boost trust across internal teams and counterparties, and enable informed decisions in token issuance, governance, and enterprise deployments.

Continuing the conversation

If you would like to learn more about EY Blockchain Analyzer: Smart Contract & Token Review solution and how it can help your organization, please contact the team below.



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EY teams work across a full spectrum of services in assurance, consulting, tax, strategy and transactions. Fueled by sector insights, a globally connected, multidisciplinary network and diverse ecosystem partners, EY teams can provide services in more than 150 countries and territories.

All in to shape the future with confidence.

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