

How does EY help businesses build trust in blockchain smart contracts at scale?

EY Blockchain Analyzer:
Smart Contract & Token Review –
now with AI.

Shape the future with confidence

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

Client FAQs

EY's Smart Contract & Token Review (SC&TR) solution helps organizations build trust in blockchain-enabled transactions by delivering scalable, AI-powered smart contract reviews. Its intuitive natural language interaction is a game changer in the smart contract testing environment allowing clients to test contracts for vulnerabilities.

What is a smart contract?

A smart contract is a self-executing blockchain program that enforces agreement terms automatically, enabling secure, transparent transactions without intermediaries – used in finance, supply chain, and more.

Why should smart contracts be reviewed?

Smart contracts should be reviewed to mitigate the risks of errors, vulnerabilities, and other issues that could compromise their security and functionality. By identifying potential risks and opportunities to improve the code, reviews help reduce the risks of costly mistakes, fraud and hacking attempts. Such reviews can help stakeholders assess that the smart contract operates as it has been designed, which is crucial for applications that involve sensitive data or high-value transactions.

What is a Smart Contract & Token Review?

The EY Blockchain Analyzer: Smart Contract & Token Review solution uses advanced AI to analyze smart contracts, automatically generating hundreds of test cases. It delivers clear, actionable insights into security, functionality, and code quality. This supports faster and safer blockchain deployments.

What type of blockchains do you support?

EY focuses on public blockchains, primarily Ethereum (or EVM based), enabling robust smart contract reviews for enterprise-grade blockchain solutions.

How does the Smart Contract & Token Review solution work?

Submit your code and our AI-driven engine analyzes architecture, generates test cases, and simulates transactions on a Mainnet simulator, including time-triggered scenarios, for a thorough security and functionality assessment.

What are the key AI features of Smart Contract & Token Review?

Smart Contract & Token Review features a formal mapping module for code analysis, an AI agent generating hundreds of test cases, and a Security AI assistant for natural language code interaction, making smart contract reviews accessible and efficient.

Who can use the Smart & Token Review?

The Smart Contract & Token Reviewsolution is available to anyone needing to review smart contracts. From enterprises and startups to developers, auditors, and risk teams. It can be accessed via user interface or API, enabling broad usage without requiring deep technical expertise. EY audit clients can have a team of professionals conduct a smart contract review using the tool.

How does Smart Contract & Token Review support developer workflows?

Developers can connect directly through the API, run tests from their environment, and use the Security AI Assistant for natural language queries, streamlining smart contract reviews and regression testing.

Which security tests do you support?

Smart Contract & Token Review covers common and emerging vulnerabilities, with AI generating hundreds of test cases based on business logic and known risks. In addition, the tool featured automated and manual reviews to enable high code coverage. EY uses common industry leading practices such as OWASP, SWC and DAST top 10 vulnerabilities to align our methodology with the ecosystem.

What is functionality testing?

EY research and experience revealed that most smart contract exploits occur through unexpected behavior of the smart contract and manipulation of edge cases. Functionality testing aims to reduce that risk by simulating contract behavior by both reviewing the required syntax and mimicking various scenarios that are part of the ERC-20 standard core functionality.

When should I use the Smart Contract & Token Review tool?

Use Smart Contract & Token Review before deployment, during development, or for code updates. AI-powered regression testing and simulation helps catch issues early. Once deployed, a smart contract is immutable, meaning that, in most cases, bugs and vulnerabilities cannot be fixed without a risky code update.

Why are EY teams well-positioned to support clients with smart contract reviews?

EY has over 10 years' experience conducting smart contract reviews and has made significant investments researching smart contract vulnerabilities.

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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BMC Agency
GA 14320583

EYG no. 009607-25Gbl
ED None

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