

SMART CONTRACTS:

Fast, Secure and Cost-Efficient built into Algorand's Layer-1

KEY ATTRIBUTES & BENEFITS TO YOUR BUSINESS

Built into Algorand's Layer-1 Protocol that is:

-  Decentralized
-  Secure
-  Scalable
-  Permissionless
-  Never Forks

Taking advantage of the Network's:

-  Speed
-  Cost Effectiveness
-  Precision
-  Finality

SMART CONTRACTS OFFER:

Smart contracts unlock the potential of blockchain, and are designed from the ground up to power complex applications that require speed, scale, finality, and security, while being cost-effective and precise removing the barriers to mainstream blockchain adoption.

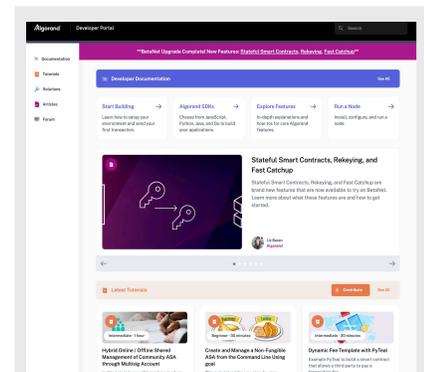
Developers using smart contracts built on first-generation blockchains are facing challenges that are preventing their applications from gaining mainstream adoption. These smart contracts are slow to propagate, costly, and do not scale for real-world application. These impediments have to be removed for viable mainstream adoption, otherwise, blockchain applications will remain as fringe use cases.

ALGORAND SMART CONTRACTS AT LAYER-1 (ASC1)

Algorand Smart Contracts at Layer-1 (ASC1) remove these barriers to provide a trusted, seamless solution that is not only high performing, but also functionally advanced to enable sophisticated applications. ASC1s are built into Algorand's Layer-1 protocol offering a next-generation, open-source, permissionless blockchain that is decentralized and secure. The most significant benefits of ASC1s include:

- **Ability to build seamless complex applications** that solve real-world use cases across different industry segments
- **Scalable, Fast and Secure** execution not currently possible in legacy platforms. ASC1s operate at over 1,000TPS and are final in under 5 seconds on a platform that is verified not to fork
- **Low cost to execute** as ASC1 transactions have the same fee as any other transaction on the Algorand blockchain at .001 Algos
- **Reduced risk** with instant settlement through trustless execution
- **Increased speed to market** with comprehensive development resources such as simplified templates for Stateless Smart Contracts and examples of different complex custom dApp for Stateful Smart Contracts
- **Flexibility** as ASC1s can be applied to specific transactions, all transactions from an account, or fully power rich dApps

ASC1s are trustless programs that execute on chain, where users have confidence that the program was run correctly and the results were not tampered with. ASC1s have the ability to automatically enforce custom rules and logic, from simply defining how assets can be transferred to complex application logic and flow. ASC1s are written in a new language called Transaction Execution Approval Language (TEAL) as well as PyTeal, a python language binding.



For developer resources, please visit developer.algorand.org.

POWERING ADVANCED USE CASES

Removing barriers to adoption across transactional exchanges, traditional finance, and defi use cases

- Escrow account creation
- Loan payments & Fee Executions
- Limit orders
- Subscriptions
- Collateralized obligations
- Regulated & automated disbursements
- Programmatic recurring fees / recurring debt
- Delegated high-security account management
- Interface with off-chain data providers
- Cross chain Atomic Transfers
- HELOC (Home Equity Line of Credit)
- Decentralized exchanges
- Reimbursement validation
- Cross chain Atomic Transfers
- Voting Application Permissioned
- Voting Application Permissionless
- Crowdfunding
- Algorand ASA Simulation
- Security Token
- Simple Token
- Banking
- Simple Bidding Application
- Charitable or Aid distribution
- Credit and Lending
- Derivatives
- Exchanges and Liquidity
- Margin Trading
- Alternative Savings
- Payment Solutions
- Prediction Markets
- Marketplaces

About Algorand Inc.

Algorand Inc. built the world's first open source, permissionless, pure proof-of-stake blockchain protocol for the next generation of financial products. This blockchain, the Algorand protocol, is the brainchild of Turing Award-winning cryptographer Silvio Micali. A technology company dedicated to removing friction from financial exchange, Algorand Inc. is powering the DeFi evolution by enabling the creation and exchange of value, building new financial tools and services, bringing assets on-chain and providing responsible privacy models.

To learn more and work with the Algorand team, contact us at www.algorand.com/contact

