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# Introduction

The majority of existing smart contract platforms, while supporting trustless executions of arbitrary programs, lack access to real-world data. This limitation hinders the maximum potential of such contracts. BandChain was created to solve this issue by connecting public blockchains with these real-world, off-chain information. The project was created with the following design goals:

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quantity of data requests to multiple public blockchains with minimal latency and while maintaining a high throughput. The expected response time must be in the order of seconds.

2. **Cross-Chain Compatibility:** The system must be blockchain-agnostic and able to serve data to most publicly available blockchains. Verification of data authenticity on the target blockchains must be efficient and trustless by nature.
3. **Data Flexibility:** The system must be generic and able to support different methods of retrieving and aggregating data, including both permissionless, publicly available data as well as information guarded by centralized parties.

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aforementioned goals with a blockchain

specifically built for off-chain data curation. The blockchain supports generic data requests and on-chain aggregations with WebAssembly-powered oracle scripts. Oracle results on BandChain blockchain can be sent across to other blockchains via the [Inter-Blockchain Communication protocol \(IBC\)](#) ↗ or through customized one-way bridges with minimal latency.



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NEXT

**Terminology**



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**BAND PROTOCOL**



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