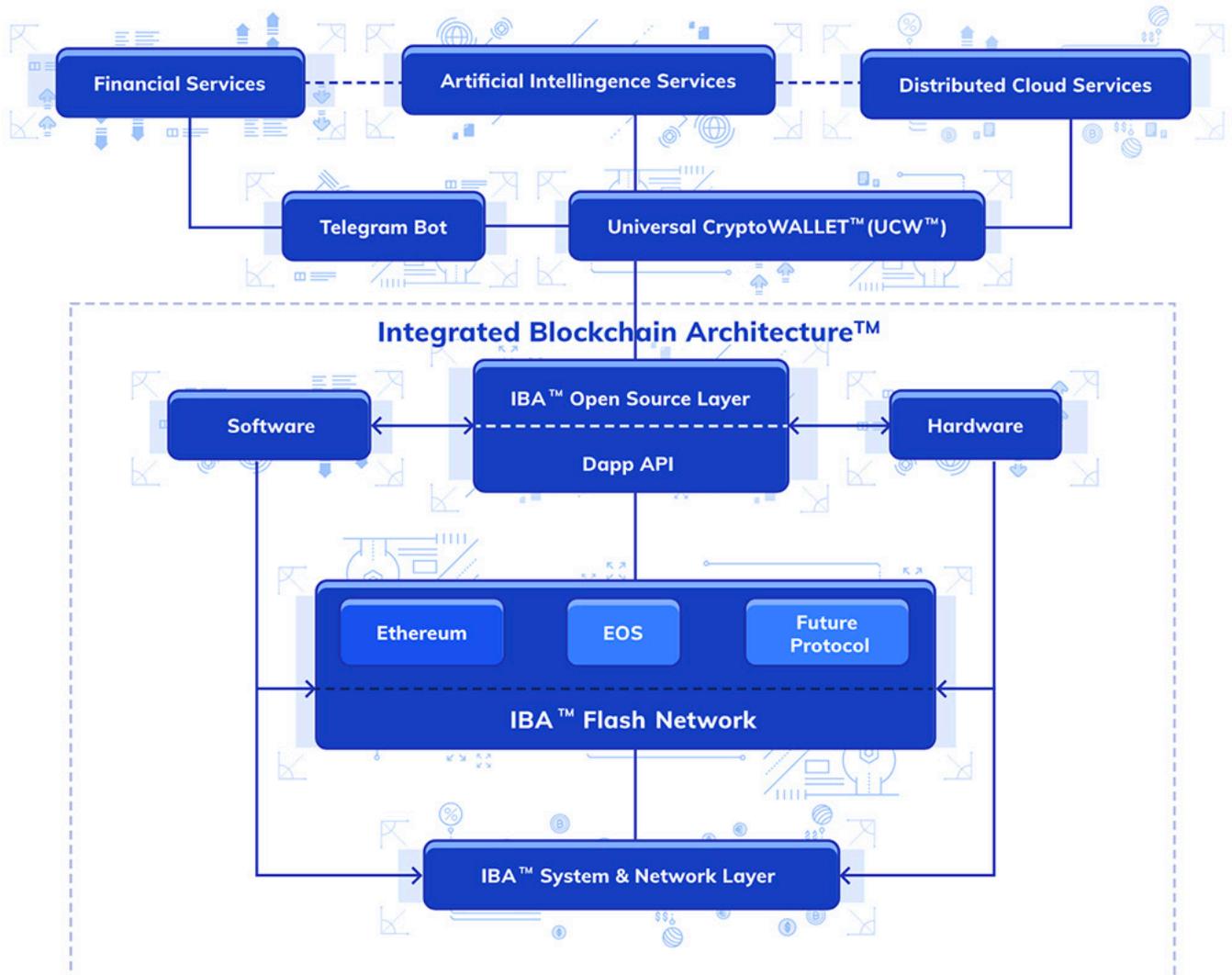


THE SPLEND TECHNICAL VISION

- INTEGRATED BLOCKCHAIN ARCHITECTURE™ (IBA™)

IBA™ is a systems approach to solving the blockchain scalability & latency limitations, making the Blockchain network ubiquitous just like the Computer and the Internet.



IBA™ is Splend's scalable technology platform for the new Blockchain network enabling P2P decentralized application users to instantaneously perform any transactions anywhere in the world.

Overview

The IBA™ is a systems approach in partitioning the blockchain's functionality between hardware and software components. The IBA™ is the core infrastructure horizontal platform for the Blockchain Network very similar to the solutions by the Internet era infrastructure pioneers such as Cisco. Splend's IBA™ draws upon three decades of experience the Splend team has had in solving very similar problems during the past two computing platform revolutions, i.e. Computer and Internet.

Splend's blockchain applications and services run on the IBA™ platform, addressing fast-growing vertical markets. With an initial focus on Financial Services, Splend has crafted an application with an associated blockchain service that is available now. These products provide users, especially the unbanked ones, a convenient, secure and fast method to conduct financial transactions. These product offerings are available now.

IBA™ Technical Objectives:

1. Users & Devices:

IBA™ must be able to scale to millions of transactions per seconds with billions of users and devices transacting simultaneously.

2. Latency

IBA™ must be able to guarantee low latency irrespective of the users' locations and the amount of information (Voice, Video, Data, etc.) being transmitted. The target latency is in a few milliseconds for users to perform transaction anywhere in the world.

3. Performance

IBA™ must be capable of performing applications requiring sequential as well as parallel algorithm.

4. Adaptability to Protocols/Applications

IBA™ must be protocol and application agnostic.

5. Deterministic & Lossless Transactions

IBA™ must be capable of performing deterministic response and lossless transmission for applications that demand these attributes.

The IBA™ Flash Network

The IBA™ Flash Network is the first implementation of the Splend's Integrated Blockchain Architecture™ (i.e. IBA™ 1.0). The IBA™ Flash Network is a disruptive technology intended to solve the problems of scalability and transaction settlement time. It is a decentralized network which utilizes the IPFS protocol of peer-to-peer method of storing data. It is an off-chain scaling solution which allows for instant, low-fee and scalable transactions. Individual payment transfers show up on the IBA™ Flash Network's ledger stored within IPFS. There are no gas fees within the IBA™ Flash Network, and payments are confirmed a lot faster. The IBA™ Flash Network is layered on top of the Ethereum blockchain and works with all ERC20 tokens. While the Bitcoin blockchain can perform about 3 transactions per second, and the Ethereum blockchain - about 30 transactions per second, the IBA™ Flash Network is targeting to perform 1 million transactions per second.

The blockchain protocol layer in the IBA™ will perform popular blockchain protocols such as Bitcoin, Ethereum, EOS, Ripple, Stellar, etc. In the first release, the IBA™ is ERC20 compatible. Also, the consensus layer within the blockchain protocol layer will be capable of popular consensus protocols such as proof of work, proof of stake, delegated proof of stake, etc. The ultimate objective is for the IBA™ to be protocol and application agnostic. This is similar to the system level components of the Internet backbone. For instance, the ISP backbone aggregation routers can run a complex routing protocol and handle many different networking protocols such as IP, Ethernet, MPLS, ATM, Frame Relay, etc. Furthermore, it is application agnostic and capable of all types of traffic, data, voice, and video.

The IBA™ System and Network Layer performs the partitioning between functions implemented in software and hardware. In essence, this is the IBA™ virtualization layer. This layer provides the seamless communication among the various low-level hardware and software resources.