

2.3.2.2 Permitted Networks

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[Permitted Networks](#) (Glossary Definition)

Permitted Networks combine the properties of both the [public network](#) and [private network](#). Each permitted network is unique and represents a careful balance of public and private networks to meet specific business use cases.

The available options include allowing anyone to join the permitted network after suitable verification of their identity, and the allocation of select and designated permissions to perform only certain activities on the network. ¹⁾

Benefits of Permitted Networks

- **Decentralization**

The degree of decentralization for [dido:public:ra:xapend:xapend.a_glossary:p:permitted|permitted networks]] is a business decision. The extent and quality of decentralization depends upon the number of peers (i.e., nodes), the expected number of bad nodes in the network, and the type of [consensus](#) mechanism determined by the [stakeholder](#). [Permitted blockchains](#) usually employ an algorithm such as [Byzantine Fault Tolerance \(BFT\)](#), which differs from the [proof of work \(PoW\)](#) algorithm²⁾.

- **Transparency**

Transparency is not a driving force in permitted networks and is often a major factor in the business decision to choose permitted over [permissionless networks](#). Most permitted blockchains do not use [cryptoeconomic coins](#) incentive or [tokens](#). The primary incentive of permitted blockchain participants is to minimize the transparency, cost, time, and ease of sharing information³⁾.

- **Privacy**

Permitted blockchains offer fine-grained visibility into transaction details, as well as, [metadata](#) about those transactions which, in many ways, compromises the privacy of the Network participants⁴⁾.

- **Governance**

There are fundamental differences between [permissionless](#) and permitted network governance. Permitted governance is decided and agreed upon by members of the business network. Economic incentives, code quality, code changes, and power allocation among peers are based on the business dynamics and the common purpose and goals of the permitted members. This allows for agile and responsive networks desired by businesses⁵⁾.

- **Tokens**

Permitted blockchains generally do not employ a [cryptoeconomic coins](#) incentive or [tokens](#)⁶⁾.

- **Scalability and Performance**

Permissioned blockchains use [consensus](#) mechanisms, which are computationally inexpensive (when compared to [proof of work \(PoW\)](#)). Therefore, they enjoy substantially better [scalability](#) and [performance](#) than their [permissionless network](#) cousins⁷⁾.

1)
“Public, Private, Permissioned Blockchains Compared”, Shobhit Seth, Investopedia, 10 April 2018, <https://www.investopedia.com/news/public-private-permissioned-blockchains-compared/>

2) 3) 4) 5) 6) 7)

“Nuances Between Permissionless and Permissioned Blockchains”, Anant Kadiyala, 18 February 2018, <https://medium.com/@akadiyala/nuances-between-permissionless-and-permissioned-blockchains-f5b566f5d483>

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