

1.1 Problem

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A major problem confronting the users of DIDs are getting products that support the end-users **Non-Functional** requirements. The two most noteworthy Non-Functional requirements are **Interoperability** and **Portability** of products built upon the existing DID platforms. However, other Non-Functional requirements such as **Maintainability**. Maintainability covers a broad spectrum of areas:

- **Modularity** - Degree to which a system or computer program is composed of discrete components such that a change to one component has minimal impact on other components.
- **Reusability** - Degree to which an asset can be used in more than one system, or in building other assets.
- **Analysability** - Degree of effectiveness and efficiency with which it is possible to assess the impact on a product or system of an intended change to one or more of its parts, or to diagnose a product for deficiencies or causes of failures, or to identify parts to be modified.
- **Modifiability** - Degree to which a product or system can be effectively and efficiently modified without introducing defects or degrading existing product quality.
- **Testability** - Degree of effectiveness and efficiency with which test criteria can be established for a system, product or component and tests can be performed to determine whether those criteria have been met.

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