

# DIDO 3.0 (Compact Version)

- Reference Architecture (RA)
- Front Matter
- a. Cover Page
- OMG Discussion Paper Disclaimer
- b. Change Log
- c. Abstract
- d. Copyright Notice
- f. Preface
- 1 Introduction
- 1.1 Problem
- 1.2 Purpose
- 1.3 Content Organization
- 2 Architectural Views
- 2.1 Stakeholder Views
- 2.1.1 Platform View
- 2.1.2 Domain View
- 2.1.3 Ecosystem View
- 2.1.4 Ecosphere View
- 2.1.5 Exchange View
- 2.1.6 Enterprise View
- 2.1.7 Relevant Community Standards
- 2.2 Technical Views
- 2.2.1 Fundamental Views
- 2.2.1.1 Interfaces
- 2.2.1.1.1 Platform Interface
- 2.2.1.1.2 Software Interfaces
- 2.2.1.1.3 Human Interfaces
- 2.2.1.2 Tools
- 2.2.1.2.1 Logging
- 2.2.1.2.2 Semantic Web
- 2.2.1.2.3 Open Source Communities
- 2.2.1.3 Case Management
- 2.2.1.4 System of Systems (SoS)
- 2.2.1.5 Quality
- 2.2.1.6 Open Source Paradigm
- 2.2.1.7 Assurance
- 2.2.2 Node Network View
- 2.2.2.1 Network View
- 2.2.2.1.1 Secure Messaging
- 2.2.2.1.2 Transport
- 2.2.2.1.3 Security
- 2.2.2.1.4 Protocol
- 2.2.2.1.5 Distribution Software
- 2.2.2.2 Node View

- 2.2.2.2.1 Operating System (OS)
- 2.2.2.2.2 Operating Environment
- 2.2.2.2.3 DIDO Platform
- 2.2.2.2.4 Distributed Applications
- 2.2.2.3 Node Architecture
  - 2.2.2.3.1 Immutable Data Objects
    - 2.2.2.3.1.1 Ledger
    - 2.2.2.3.1.2 Transactions
    - 2.2.2.3.1.3 Identities
    - 2.2.2.3.1.4 Wallets
  - 2.2.2.3.2 Ancillary Data
    - 2.2.2.3.2.1 Journal
    - 2.2.2.3.2.2 Transforms
    - 2.2.2.3.2.3 Distributed Applications
    - 2.2.2.3.2.4 Web Applications
    - 2.2.2.3.2.5 Exchanges
  - 2.2.2.3.3 Semantic Web
  - 2.2.2.3.4 Software
- 2.2.2.4 Messaging View
- 2.2.3 Decentralized Finance (DeFi) Layers
- 2.3 Taxonomic Views
  - 1\_topologies
    - 2.3.1.1 Centralized Network Topology
    - 2.3.1.2 Decentralized Network Topology
    - 2.3.1.3 Distributed Network Topology
    - 2.3.1.4 Relevant Networking Standards
  - 2\_network\_access\_ctrl
    - 2.3.2.1 Permissionless Networks
    - 2.3.2.2 Permissioned Networks
    - 2.3.2.3 Public Networks
    - 2.3.2.4 Private Networks
    - 2.3.2.5 Hybrid Networks
  - 3\_node\_tax
    - 2.3.3.1 Full Node
      - 2.3.3.1.1 Pruned Node
      - 2.3.3.1.2 Archival Node
        - 2.3.3.1.2.1 Authority Node
        - 2.3.3.1.2.2 Staking Node
        - 2.3.3.1.2.3 Mining Node
        - 2.3.3.1.2.4 Masternode
      - 2.3.3.2 Lightweight Node (Wallet)
      - 2.3.3.3 Lightning Node
      - 2.3.3.4 Permanode
    - 4\_data\_tax
      - 2.3.4.3.1 Ledger Data
      - 2.3.4.3.2 Ancillary Data

- 2.3.4.3.3 External Data
- 3 Governance
  - 3.1 DIDO Communities
    - 3.1.1 Stakeholder Communities
    - 3.1.2 Software Communities
  - 3.2 Legal Documents
    - 3.2.1 Charter
    - 3.2.2 Bylaws
    - 3.2.3 Policies and Procedures (P&P)
  - 3.3 Guides
- 4 Requirements
  - 4.1 About Requirements
    - 4.1.1 Governance Requirements Model
    - 4.1.2 Cognitive Requirements Model
    - 4.1.3 Governing Roles - Combined Requirements Model
    - 4.1.4 Example of a Using the Combined Requirements Model
    - 4.1.5 The Current State of DIDO Requirements
    - 4.1.6 One Degree of Freedom Rule
    - 4.1.7 Specifying Requirements
  - 4.2 Functional Requirements
    - 4.2.1 Platforms
      - 4.2.1.1 Hardware Platform
      - 4.2.1.2 Operating System Platform
      - 4.2.1.3 Runtime Platforms
      - 4.2.1.4 Network Platforms
      - 4.2.1.5 Virtualized Nodes
    - 4.2.2 Access Control
  - 4.3 Non-Functional Requirements
    - 4.3.1 Portability
      - 4.3.1.1 Adaptability
      - 4.3.1.2 Installability
      - 4.3.1.3 Replaceability
    - 4.3.2 Reliability
      - 4.3.2.1 Maturity
      - 4.3.2.2 Availability
      - 4.3.2.3 Fault Tolerance
      - 4.3.2.4 Recoverability
    - 4.3.3 Maintainability
      - 4.3.3.1 Modularity
      - 4.3.3.2 Reusability
      - 4.3.3.3 Analysability
      - 4.3.3.4 Modifiability
      - 4.3.3.5 Testability
    - 4.3.4 Securability
      - 4.3.4.1 Confidentiality
      - 4.3.4.2 Data Integrity
      - 4.3.4.3 Non-Repudiation
      - 4.3.4.4 Authenticity

- [4.3.4.5 Accountability](#)
- [4.3.5 Manageability](#)
  - [4.3.5.1 Types of Manageability Functions](#)
  - [4.3.5.2 Manageability Costs](#)
  - [4.3.5.3 System Manageability Issues](#)
  - [4.3.5.4 Software Manageability Issues](#)
- [4.3.6 Usability](#)
  - [4.3.6.1 Effectiveness Metrics](#)
  - [4.3.6.2 Efficiency Metrics](#)
  - [4.3.6.3 Attitude / Satisfaction Metrics](#)
- [4.3.7 Performance](#)
  - [4.3.7.1 Platform Performance](#)
  - [4.3.7.2 Application Performance](#)
  - [4.3.7.3 Network Performance](#)
- [4.3.8 Interoperability](#)
- [4.3.9 Elasticity](#)
- [4.3.10 Scalability](#)
- [4.4.2.1 How to Use the Non-Functional Requirements Boilerplate](#)
- [4.4 Assessing Requirements](#)
  - [4.4.1 Functional Requirements Assessment](#)
  - [4.4.2 Non-functional Requirements Assessment](#)
- [Appendices](#)
  - [xapend.a\\_glossary](#)
  - [xapend.b\\_std](#)
  - [Technical Standards Bodies](#)
  - [de facto Standards Bodies](#)
  - [xapend.c\\_hwarch](#)
  - [xapend.d\\_opsys](#)
  - [xapend.e\\_tools](#)
  - [xapend.f\\_qos](#)
  - [Appendix G: Tests](#)
  - [Appendix H: Acronyms](#)
  - [Appendix I: Cognitive Model](#)
  - [Appendix J: Governance Model](#)

From:  
<https://www.omgwiki.org/dido/> - **DIDO Wiki**

Permanent link:  
[https://www.omgwiki.org/dido/doku.php?id=wiki:ebook:dido\\_3.0\\_compact\\_version&rev=1633281828](https://www.omgwiki.org/dido/doku.php?id=wiki:ebook:dido_3.0_compact_version&rev=1633281828)



Last update: **2021/10/03 13:23**