



Technical Requirements

A controlled document of the Yoma Rules

Version 1.0
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This publicly available <guide, template, spreadsheet, etc.> was approved by the ToIP Foundation Steering Committee on [date of approval (dd month yyyy)].

The mission of the [Trust over IP \(ToIP\) Foundation](#) is to define a complete architecture for Internet-scale digital trust that combines cryptographic assurance at the machine layer with human accountability at the business, legal, and social layers. Founded in May 2020 as a non-profit hosted by the Linux Foundation, the ToIP Foundation has over 300 organizational and 100 individual members from around the world.

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Requirements V1

This is a **controlled document** of the Yoma Rules (YR).

Document Name	Technical Requirements
Version	V1
Approval Date	
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Owned By	yoma platform operator

1. Representation and Uniqueness

- 1.1. It **MUST** be possible for any **yoma member** to be represented on the **yoma platform** by more than one set of digital data (for example **youth participants** with more than one **digital CV**).
- 1.2. The **yoma platform** **SHOULD** enable **yoma members** to curate, customize and control every set of **digital data**, for example by providing **youth participants** with individual learning pathways.

2. Explainable Artificial Intelligence (AI)

- 2.1. The yoma platform operator and technology providers **MAY** employ AI.
- 2.2. If **AI** is used, for example to make recommendations for **opportunities**, then the **party** that is employing **AI** **MUST** notify the **administering authority** at least 90 days prior to implementation so that revisions can be made to the **YR**.
- 2.3. If **AI** is used for automated decision-making or policy enforcement, for example using machine-readable **governance** or **artificial intelligence (AI)** then it **MUST** be explained in a child-friendly way in the user interface.

3. Data Portability The **yoma platform** **MUST** provide functionality for **Yoma members** to move or transfer a copy of their **digital data** to the agents or systems of their choice, for example enabling **youth** participants to print a copy of their CV.

4. Inclusion, Accessibility & Usability

- 4.1. The **yoma platform operator** and **technology providers** whose services include user interfaces **SHOULD** employ inclusive and human centred design practices to account for social, financial and digital exclusion.
- 4.2. It **SHOULD** be possible for **yoma members** to access the **yoma platform** via low-tech (e.g. voice or feature phones) and no-tech (e.g. paper or in person) channels.
- 4.3. The **yoma platform authority** **SHOULD** implement **guardianship credentials** based on the [Guardianship Credentials Technical Requirements](#) published by the Sovrin Foundation.

Requirements V1

- 4.4.** **Technology providers** and the **yoma platform operator** MUST comply with [W3C Accessibility Standards](#).
- 4.5.** The **yoma platform operator** and **technology providers** SHOULD carry out usability and user acceptance testing before making any new service or functionality live on the **yoma platform**.
5. *Decentralization via local communities.* The **yoma platform operator** SHOULD provide tools and services which enable **Yoma members** to develop **local Yoma communities** with their own **platform operator**.
6. *Community Accountability*
- 6.1. The **yoma platform operator** MAY appoint local community representatives.
- 6.2. The **yoma platform** MAY include functionality that is open to non-**yoma members** for them to call **yoma community members** to account.
7. *Sustainability* The **yoma platform operator** MUST have an economically sustainable business model for the long term which accounts for environmental and social impact on the Yoma **ecosystem**.
8. *Interoperability & Standards.*
- 8.1. All products of the **yoma platform operator** MUST be made available on an [open source](#) basis or made available royalty and license-free.
- 8.2. **Technology providers** and the **yoma platform operator** MUST comply with the following standards:
- 8.2.1. [W3C Decentralized Identifiers V1.0 #Layer1](#)
- 8.2.1.1. [DID:SOV](#)
- 8.2.1.2. [DID:Indy](#) when available
- 8.2.2. [DIDComm V1.0 #Layer2](#)
- 8.2.3. [DIDComm Messaging Specification #Layer2](#)
- 8.2.4. [Credential Revocation List #Layer3](#)
- 8.2.5. [Verifiable Credentials JSON Schemas #Layer3](#)
- 8.2.6. [W3C Verifiable Credentials, Data Model V1.0 published 19 November 2019 #Layer3](#)
- 8.3. **Technology providers** and the **yoma platform operator** MAY comply with the following standards:
- 8.3.1. [Decentralized Specification Registries #Layer1](#)
- 8.3.1.1. specifically [DID:Peer](#)
- 8.3.1.2. and [DID:Key](#) methods.
- 8.3.2. [Linked Data Proofs BBS+ Signatures](#), #Layer3
- 8.3.3. [Linked Data Proofs](#) #Layer3
- 8.3.4. [JSON Linked Data \(JSON-LD\)](#) #Layer3
- 8.3.5. [Verifiable Presentation Exchange](#) #Layer3
- 8.3.6. [Verifiable Presentation Request](#) #Layer3

Requirements V1

9. *Cooperation*
 - 9.1. The **yoma platform** SHOULD provide tools and functionality which fosters cooperation between **Yoma members**, for example discussion forums, voting mechanisms and online dispute resolution mechanisms.
 - 9.2. The **yoma platform** MUST NOT provide tools and **opportunities** which create public competition between **Yoma members**, for example a 'like' button on **digital data** they have shared on the **yoma platform**.
10. *Open and Transparent*
 - 10.1. The **yoma platform operator** SHOULD seek an independent code audit

Requirements V1



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- ❖ Specifications to be implemented in code
- ❖ Recommendations to be followed in practice
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