



**International
Standard**

ISO 22373

**Security and resilience —
Authenticity, integrity and trust
for products and documents
— Framework for establishing
trustworthy supply and value chains**

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Foreword

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This document was prepared by Technical Committee ISO/TC 292, *Security and resilience*.

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Introduction

This document introduces a structured way to establish and ensure trustworthiness along supply and value chains. As economies are moving towards more digital and connected supply chains, this document intends to support the management of trustworthiness along multiple supply and value chain stakeholders.

This document develops and elaborates an approach that supports stakeholders in a supply and value chain to identify distinct trust domains (TDs). It includes guidelines for the identification of trustworthiness attributes and measures to achieve the targeted and required trustworthiness attributes.

Moreover, an approach for identifying trust interaction points (TIPs) between different TDs and ensuring that each interaction in a supply and value chain is trustworthy, is elaborated in this document. Furthermore, this document aids the establishment of the chain of trustworthiness along supply and value chains.

This document aims to serve as an enabler for systemization and automation of trustworthiness verification of supply and value chain participants, organizations, systems and their products. It also supports systematic digitalization of the supply and value chains based on their business objectives.

By nature, security attacks against supply and value chains are becoming increasingly complex, regardless of industrial verticals or business contexts. That is especially why it is essential to establish, maintain, and protect the chain of trustworthiness along any supply and value chain by additional measures. Specific security measures are out of the scope of this document and are determined by each specific business case.

In addition to supporting the chain of trustworthiness of supply and value chains, this document also supports agility as it enables the exchange of trustworthiness expectations and capabilities in a flexible and trustworthy manner. Using a unified data structure supports the achievement of several trustworthiness relevant properties, such as interoperability, robustness, accountability, transparency while preserving privacy and confidentiality.

Different technologies can be leveraged for the implementation of the approaches provided in this document. This document can also be used to support existing systems. This document is technology agnostic, and the aspects specified in this document can be implemented using various technologies such as PKI (Public Key Infrastructure) certificates, decentralized identifiers (DID) and verifiable credentials (VC).

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