# ISO 22381:2018 (E)

## Security and resilience — Authenticity, integrity and trust for products and documents — Guidelines for establishing interoperability among object identification systems to deter counterfeiting and illicit trade

# Contents


Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Abbreviated terms

5 Planning, implementing and controlling systems' interoperability

- 5.1 Identify stakeholders and their needs
- 5.2 Organize stakeholders
- 5.2.1 Identify lead stakeholder
- 5.2.2 Define roles and responsibilities
- 5.2.3 Develop a contractual framework
- 5.2.4 Set up an onboarding and leaving process
- 5.3 Plan architecture
- 5.3.1 General principles
- 5.3.2 Identify participating OIASs and functional blocs to form the constituents of the I-OP
- 5.3.3 Study types and ownership of attributes to be handled
- 5.3.4 Specify TEPs for secure I-OP access
- 5.3.5 Specify access rules for users
- 5.3.6 Define and improve trust levels
- 5.3.7 Outline or delimit the usage of participating OIASs and their functional units
- 5.3.8 Draft an I-OP architecture
- 5.3.9 Return information back to the source
- 5.4 Plan and implement operations
- 5.4.1 Define data exchange formats
- 5.4.2 Establish trust into the service behind a particular UID
- 5.4.3 Delimit data inputs and outputs
- 5.4.4 Define storage and custodianship of data inputs and outputs
- 5.4.5 Define operational responsibilities
- 5.4.6 Prepare for systems failures
- 5.4.7 Negotiate alarm responses of common interest
- 5.4.8 Run pilots
- 5.5 Review and improve
- 5.5.1 General
- 5.5.2 Revisit stakeholders' expectations
- 5.5.3 Review operations
- 5.5.4 Review security
- 5.5.5 Review technology

Annex A (informative) Typical stakeholder interests in an I-OP

Annex B (informative) The role of trusted entry points for user groups

Annex C (informative) Types of information exchanged in I-OP architectures

- C.1 Free use of non-structured and not predefined information
- C.2 Information exchange using predefined formats and content


Page count: 20