

ISO/TR 6039:2023-06 (E)

Blockchain and distributed ledger technologies - Identifiers of subjects and objects for the design of blockchain systems

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Considerations for the design of blockchain systems	2
4.1 General.....	2
4.2 Reference Architecture.....	3
4.3 Decentralized Identifiers.....	4
5 Identifiers of subjects	5
5.1 General.....	5
5.2 Identifiers of natural persons.....	5
5.2.1 Public sector identifiers.....	5
5.2.2 Private sector identifiers.....	6
5.3 Identifiers of legal entities.....	6
5.3.1 Public sector identifiers.....	6
5.3.2 Private sector identifiers.....	8
6 Identifiers of objects	9
6.1 Introduction.....	9
6.2 Identifiers of objects used in multiple industries (“horizontal”).....	10
6.2.1 Supply chain.....	10
6.2.2 Telecom.....	13
6.2.3 Internet.....	15
6.2.4 Patents and trade marks.....	16
6.2.5 Postal services.....	16
6.3 Identifiers of objects used in specific industries (“verticals”).....	16
6.3.1 Logistics industry.....	16
6.3.2 Agricultural and food industry.....	20
6.3.3 Financial industry.....	26
6.3.4 Healthcare industry.....	28
6.3.5 Media industry.....	29
6.3.6 Electronic devices industry.....	31
6.3.7 Automotive industry.....	32
6.3.8 Mining industry.....	34
6.3.9 Chemical industry.....	34
6.3.10 Land administration and real estate.....	35
Annex A (informative) Identifier standards as issued by government agencies and SDOs	36
Annex B (informative) Identifier categories	37
Annex C (informative) List of agricultural vocabularies published by ISO	38
Bibliography	41