

ISO/IEC 9798-3:2019 (E)

IT Security techniques — Entity authentication — Part 3: Mechanisms using digital signature techniques

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols and abbreviated terms
5	General
5.1	Time variant parameters
5.2	Tokens
5.3	Use of text fields
6	Requirements
7	Mechanisms without an on-line trusted third party
7.1	Unilateral authentication
7.1.1	General
7.1.2	Mechanism UNI.TS — One-pass authentication
7.1.3	Mechanism UNI.CR — Two-pass authentication
7.2	Mutual authentication
7.2.1	General
7.2.2	Mechanism MUT.TS — Two-pass authentication
7.2.3	Mechanism MUT.CR — Three-pass authentication
7.2.4	Mechanism MUT.CR.par — Two-pass parallel authentication
8	Mechanisms involving an on-line trusted third party
8.1	General
8.2	Unilateral authentication
8.2.1	General
8.2.2	Mechanism TP.UNI.1 — Four-pass authentication (initiated by A)
8.2.3	Mechanism TP.UNI.2 — Four-pass authentication (initiated by B)
8.3	Mutual authentication
8.3.1	General
8.3.2	Mechanism TP.MUT.1 — Five-pass authentication (initiated by A)
8.3.3	Mechanism TP.MUT.2 — Five-pass authentication (initiated by B)
8.3.4	Mechanism TP.MUT.3 — Seven-pass authentication (initiated by B)
Annex A	(normative) Object Identifiers
A.1	Formal definition
A.2	Use of subsequent object identifiers
Annex B	(informative) Usage guidance
B.1	Security properties
B.1.1	Entity Authentication
B.1.2	Unilateral and mutual authentication
B.1.3	Certificate distribution and trust
B.2	Comparison and selection of mechanisms
B.2.1	Comparison
B.2.2	Recommendations for the selection of a mechanism
Annex C	(informative) Use of text fields