

ISO/IEC 27004:2009-12 (E)

Information technology - Security techniques - Information security management - Measurement

Contents		Page
Foreword		v
0	Introduction	vi
0.1	General	vi
0.2	Management overview	vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Structure of this International Standard	3
5	Information security measurement overview	4
5.1	Objectives of information security measurement	4
5.2	Information Security Measurement Programme	5
5.3	Success factors	6
5.4	Information security measurement model	6
5.4.1	Overview	6
5.4.2	Base measure and measurement method	7
5.4.3	Derived measure and measurement function	9
5.4.4	Indicators and analytical model	10
5.4.5	Measurement results and decision criteria	11
6	Management responsibilities	12
6.1	Overview	12
6.2	Resource management	13
6.3	Measurement training, awareness, and competence	13
7	Measures and measurement development	13
7.1	Overview	13
7.2	Definition of measurement scope	13
7.3	Identification of information need	14
7.4	Object and attribute selection	14
7.5	Measurement construct development	15
7.5.1	Overview	15
7.5.2	Measure selection	15
7.5.3	Measurement method	15
7.5.4	Measurement function	16
7.5.5	Analytical model	16
7.5.6	Indicators	16
7.5.7	Decision criteria	16
7.5.8	Stakeholders	17
7.6	Measurement construct	17
7.7	Data collection, analysis and reporting	17
7.8	Measurement implementation and documentation	18
8	Measurement operation	18
8.1	Overview	18
8.2	Procedure integration	18

8.3	Data collection, storage and verification	19
9	Data analysis and measurement results reporting	19
9.1	Overview	19
9.2	Analyse data and develop measurement results	19
9.3	Communicate measurement results	20
10	Information Security Measurement Programme Evaluation and Improvement	20
10.1	Overview	20
10.2	Evaluation criteria identification for the Information Security Measurement Programme ..	21
10.3	Monitor, review, and evaluate the Information Security Measurement Programme	21
10.4	Implement improvements	21
	Annex A (informative) Template for an information security measurement construct	22
	Annex B (informative) Measurement construct examples	24
	Bibliography	55