ISO/IEC TR 29181-5:2014-12 (E)

Information technology - Future Network - Problem statement and requirements - Part 5: Security

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Termsanddefinitions 1

3 Abbreviations 1

4 General 2
4.1 Security environment in FN 2
4.2 Related works on security in FN 2

5 Problem statement of current network in security environment 2
5.1 The existing problems and reasons of network security 2
5.1.1 Network users undertake the security risk and responsibilities 3
5.1.2 Irregular Address and no truly proof for origin 3
5.1.3 Central control may lead to security disaster 3
5.2 The current network security protection measures and effect 3
5.2.1 Current security protection means of common network user 3
5.2.2 Current security protection means of professional users 4
5.3 Disadvantages of existing network security defense system 4

6 The goal and requirements of FN security 4
6.1 The goal of FN security 4
6.2 The requirements of FN security 5
6.2.1 From passive defense to active management 5
6.2.2 Replace computing confrontation with authentication technology 5
6.2.3 Forming one to more system solution with authentication technology 5
6.3 FN security technical system 5
6.3.1 Identity Authentication system 5
6.3.2 Platform security (Trusted Computing) 5
6.3.3 Secure connection and transmission 5
6.3.4 Application security 5
6.3.5 The functional requirements of FN security system 5

7 Consideration of Key technology for FN security implementation 6
7.1 Support the real-name and anonymity authentication 6
7.2 Support large-scale application 6
7.3 Support end-to-end directly authentication and key exchange 6
7.4 Support management domain segmentation and cross-domain authentication 6
7.5 Simple structure, convenient use, low cost, and easy popularized 6
7.6 The application method to realize Identity Authentication 6