

ISO/IEC TR 29181-9:2017-04 (E)

Information technology - Future Network - Problem statement and requirements - Part 9: Networking of everything

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Abbreviated terms	4
5	Overview of Networking of Everything (NoE)	4
6	Problem statement	6
6.1	User's perception	6
6.1.1	Static network selection	6
6.1.2	Inconvenient network change	7
6.1.3	Reconnection to network	7
6.1.4	Separate accounting	7
6.1.5	Thing-user centric communications	7
6.2	Network's perception	7
6.2.1	Cooperation among ISPs	7
6.2.2	Inter-services between different types of networks	7
6.2.3	Reliable data transmission after path setup	7
6.2.4	Different accounting policy	8
6.2.5	Thing-user centric networks	8
7	Related standardization and research activities	8
7.1	ISO JTC1	8
7.1.1	JTC1 WG10	8
7.2	ITU-T	8
7.2.1	Next Generation Network (NGN)	8
7.2.2	Future Networks	9
7.2.3	Smart Ubiquitous Networking (SUN)	10
7.2.4	ITU-T SG 20	11
7.3	Internet Engineering Task Force (IETF)	11
7.4	IEEE	12
7.5	oneM2M	13
8	General requirements for NoE	14
8.1	Network transparency	14
8.2	Optimized network performance	14
8.3	One universal accounting	14
8.4	Security and privacy	14
8.5	Instantaneous integration of networks for the thing-user	14
9	Technical requirements for NoE	15
9.1	Agent functions for NoE	15
9.2	Network functions for NoE	15
9.3	Integrated functions of NoE	16

Annex A (informative) U-health use case in NoE	18
Annex B (informative) Spatial collaborative work use case in NoE	20
Bibliography	22