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First edition  
2012-12-01

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## **Information technology — Telecommunications and information exchange between systems — Security framework for ubiquitous sensor networks**

*Technologies de l'information — Télécommunications et échange  
d'informations entre systèmes — Cadre de sécurité pour réseaux de  
capteurs ubiquitaires*

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Reference number  
ISO/IEC 29180:2012(E)



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Published in Switzerland

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	<i>Page</i>	
1	Scope .....	1
2	Normative references.....	1
2.1	Identical Recommendations   International Standards .....	1
2.2	Paired Recommendations   International Standards equivalent in technical content.....	1
2.3	Additional references .....	1
3	Definitions .....	2
3.1	Terms defined elsewhere.....	2
3.2	Terms defined in this Recommendation   International Standard.....	2
4	Abbreviations .....	3
5	Conventions.....	4
6	Overview .....	4
7	Threats and security models for ubiquitous sensor networks .....	7
7.1	Threat models in sensor networks .....	7
7.2	Threat models in IP networks.....	10
7.3	Security model for USNs .....	10
8	General security dimensions for USN .....	10
9	Security dimensions and threats in ubiquitous sensor networks.....	11
9.1	Security dimensions and threats for the message exchange in sensor networks .....	11
9.2	Security dimension and threats for the message exchange in the IP network .....	14
10	Security techniques for ubiquitous sensor networks.....	14
10.1	Key management.....	14
10.2	Authenticated broadcast .....	15
10.3	Secure data aggregation .....	16
10.4	Data freshness .....	17
10.5	Tamper-resistant module.....	17
10.6	USN middleware security .....	17
10.7	IP network security .....	17
10.8	Sensor node authentication.....	18
10.9	Privacy protection in sensor networks.....	18
11	Specific security functional requirements for USN.....	18
11.1	Mandatory functional requirement.....	18
11.2	Recommended functional specifications.....	18
11.3	Optional functional specifications.....	18
Annex A	– Key management in sensor networks .....	20
A.1	Threat time .....	20
A.2	Key management classes.....	20
A.3	Key schemes.....	21
Annex B	– Authenticated broadcast in sensor networks: $\mu$ TPC .....	23
B.1	Construction of $\mu$ TPC .....	23
B.2	Construction of $\mu$ TPCT.....	24
B.3	Authenticated broadcast .....	25
Annex C	– Authentication mechanisms in sensor networks .....	26
C.1	XOR-based mechanism.....	26
C.2	Hash-based mechanism .....	27
C.3	Public key-based authentication.....	29
Annex D	– Secure data aggregation in sensor networks.....	32
D.1	Elect aggregation node and supervisor.....	32
D.2	Implementation of supervisor functions.....	33
D.3	Upload supervising message .....	33
D.4	Determine the trust of aggregation nodes.....	33

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Bibliography .....	34
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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights.

ISO/IEC 29180 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 6, *Telecommunications and information exchange between systems*, in collaboration with ITU-T. The identical text is published as Rec. ITU-T X.1311 (02/2011).

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This Recommendation | International Standard describes the security threats to and security requirements of the ubiquitous sensor network. In addition, this Recommendation | International Standard categorizes the security technologies according to the security functions that satisfy the said security requirements and where the security technologies are applied in the security model of ubiquitous sensor networks. Finally, the security functional requirements and security technologies for the ubiquitous sensor networks are presented.