

# ISO/IEC TR 26927:2006-12 (E)

## Information technology - Telecommunications and information exchange between systems - Corporate Telecommunication Networks - Mobility for Enterprise Communications

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	2
4	Acronyms and abbreviations .....	7
5	Overview .....	9
6	Taxonomy of mobility .....	11
6.1	Basic mobility types .....	11
6.1.1	Terminal mobility (also known as device mobility) .....	11
6.1.2	User mobility (also known as personal mobility) .....	11
6.1.3	Session mobility .....	11
6.1.4	Service mobility .....	11
6.2	Mobility across different network infrastructures (network roaming) .....	12
6.2.1	Mobility across access network technologies .....	12
6.2.2	Mobility across administrative network domains .....	12
6.3	Granularity of mobility .....	12
6.3.1	Continuous mobility (mobile access) .....	13
6.3.2	Discrete mobility (nomadic and portable access) .....	13
6.3.3	Local and global mobility .....	14
7	Overview on technical issues of mobility .....	14
7.1	Mobility Management .....	14
7.1.1	Protocols for IP-mobility management .....	15
7.1.2	Terminal management .....	16
7.1.3	User profile management .....	17
7.1.4	Roaming services .....	17
7.1.5	Presence services .....	18
7.2	Service architecture issues .....	18
7.2.1	IMS architecture .....	18
7.2.2	Quality of Service (QoS) .....	18
7.3	Security .....	19
7.3.1	User and device identification .....	19
7.3.2	Authentication .....	20
7.3.3	Authorization .....	20
7.3.4	Access by VPN .....	20
8	Use cases of enterprise mobility .....	22
8.1	Mobility starting from the home network .....	22
8.1.1	Use case: Discrete mobility within the home domain .....	24
8.1.2	Use case: Discrete mobility between home and visited domain .....	24
8.1.3	Use case: Continuous mobility between two visited domains .....	26

8.1.4	Use case: Continuous mobility between home domain and a visited network .....	27
8.2	Mobility starting from a visited network .....	28
8.2.1	Use case: Discrete mobility in a visited public network .....	29
8.2.2	Use case: Discrete mobility in a visited enterprise network .....	31
8.2.3	Use case: Discrete mobility in a residential network .....	31
8.2.4	Use case: Continuous mobility within a visited public network .....	32
8.2.5	Use case: Continuous mobility between different network technologies of a visited public network .....	33
8.2.6	Use case: Continuous mobility between different visited public networks .....	34
8.2.7	Use case: Continuous mobility between a visited public network and the home network .	35
9	Functional requirements on enterprise-grade mobility .....	36
9.1	Enterprise user's perspective .....	36
9.2	Enterprise network operator's and IT manager's perspective .....	38
9.3	Perspective of 3rd party service providers .....	42
9.4	Perspective of regulatory authorities and administrations .....	43
Annex A (informative) Standardization and promotion activities on enterprise mobility issues .....		44