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Human Factors (HF) - User-centred terminology for existing and upcoming ICT devices, services and applications

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**Human Factors (HF);
User-centred terminology for existing and
upcoming ICT devices, services and applications**

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localisation, telephony, terminology, user**ETSI**650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - APE 7112B
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Foreword

This ETSI Guide (EG) has been produced by ETSI Technical Committee Human Factors (HF).

The work has been conducted in an open collaboration with industry, user and consumer representatives, and other relevant stakeholders. The present document is based upon desk research (documents and online sources), best practices, expert knowledge, and an industry-wide consultation and consensus process, aimed at consensus building and a quick uptake and the largest possible support in future product implementations.

Intended readers of the present document include, but are not limited to:

- device designers, developers, and manufacturers;
- application developers;
- service providers;
- network operators;
- technical writers and developers of marketing materials; and
- national and international standards bodies and regulatory institutions.

The terminologies contained in the present document are accessible in machine-readable format under <https://labs.etsi.org/rep/HF/eg203499/-/tree/v2.1.2>.

Modal verbs terminology

In the present document "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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Introduction

The terms (words, labels) used in the User Interface (UI) of a device, service or application may present an obstacle for their users if they are not familiar with those terms or if they are unsure as to their meaning. While some terms are introduced by manufacturers to denote a new class of features or to distinguish own features from those offered by competitors, most other terms denoting device or service features are not necessarily intended for differentiation. However, in the absence of a harmonized or recommended terminology, the use of those terms may differ considerably among manufacturers and service providers, thereby introducing ambiguity for end users.

The alternative to a confusing plethora of terms is some degree of harmonization among devices, services, and applications, at least for terms not intended to convey a certain brand feature or image. A harmonized terminology can be employed to help prevent the negative effects of an uncontrolled expansion of terms and the resulting ambiguity of the terms. Those negative effects include:

- increased user difficulties in understanding complex, ambiguous, and inconsistently-used terms, leading to unnecessary confusion;
- increased efforts in user education (user guides);
- increased costs for user support (hotline calls and call agent training);
- limited feature discovery and unclear user expectations (customers who do not understand certain features may not use them, hence some revenue may be missed);
- limited uptake (users may be reluctant to use a feature as they are not sure whether it has the expected effect);
- increase of cognitive complexity and subsequent learning effort; and
- abuse in the use of proprietary terms and lack of consistent use of terms.

The need for a harmonized terminology of device, service, and application features increases as new features and functionalities are being developed. Device software, services, and applications are frequently updated, often without even providing an update of the associated documentation to the users.

ETSI EG 202 132 [i.1] claims that in order to aid users' learning procedures and to enable and simplify transfer and reuse of knowledge between devices, applications and services, it is relevant to support harmonized vocabularies for the most common and generic mobile ICT functions.

Consistency across basic interactive elements increases the ease and transfer of learning and improves the overall usability of complex mobile ICT environments. Such a transfer becomes even more important when older users or people with cognitive functional limitations are addressed and expected to use smartphones, mobile services and Internet applications in most segments of everyday life, such as: sending an email, transferring a call, or setting an alarm, etc.

A harmonized terminology can also be fed into terminology management systems used within a company to ensure the consistent use of terms across products and the internal and external documentation (e.g. design documents, user guides and promotional materials), see clause 4.

ETSI EG 202 132 [i.1] contains harmonized English-language terms for a number of areas including user interfaces for hardware and software, configuration of messaging and data services, call features, and terminal functionality. ETSI TR 102 972 [i.2] extends the work done in ETSI EG 202 132 [i.1] towards 3G devices, mobile services, and applications. This extended list of proposed terms forms the initial basis for the terms considered. However, ETSI EG 202 132 [i.1] and ETSI TR 102 972 [i.2] were published a long time ago and require updating, inter alia to cover the many features and services evolved or not available at that time, and to cover other main European languages in addition to English.

The present document addresses this need on the basic level, covering 27 official EU and EFTA languages: Bulgarian, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Icelandic, Irish, Italian, Latvian, Lithuanian, Maltese, Norwegian, Polish, Portuguese, Rhaeto Romance, Romanian, Slovak, Slovenian, Spanish, and Swedish. In addition, given the speed of change in the mobile ICT landscape, it will naturally require updating to ensure continuing relevance. Furthermore, expansion to cover additional European languages and other languages used in Europe will further increase the usefulness and applicability of the present document.

The selection and validation process of the terms applied throughout their development, performed in collaboration with stakeholders is expected to add a quality dimension to the recommended vocabulary that would be difficult to achieve through an individual effort and is expected to contribute to the use and uptake of this freely available, public resource.

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1 Scope

The present document aims at further simplifying end-user access to ICT devices, services, and applications by providing recommended terms for basic and commonly-used ICT-related objects and activities, notably those terms that end users are commonly exposed to. Recommended terms are provided in 27 languages: Bulgarian, Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Icelandic, Irish, Italian, Latvian, Lithuanian, Maltese, Norwegian, Polish, Portuguese, Rhaeto Romance, Romanian, Slovak, Slovenian, Spanish, and Swedish (as spoken in their respective European countries).

The recommended terms apply to mobile ICT devices and mobile applications (whether they are standalone or provide access to related services) commonly found in mobile ICT devices. Though developed in a mobile ICT context, most of the recommended terms are applicable to both mobile and fixed-network devices, services, and applications. The recommended terms are applicable to the User Interface (UI) design for a product as well as that of any user documentation accompanying it.

User requirements and, when available, industry-originated documents as well as results of previous standardization work have been considered and integrated in the present document, providing implementation-oriented guidance. Wherever possible, a Design-for-All approach has been adopted, taking functional abilities of users, including elderly users and users with cognitive, physical, or sensory limitations into account.

The present document provides recommendations for terms that may be used by those who consider supporting the languages addressed in future products and services. It does not provide design guidance, nor does it intend to restrict the ability of market players to further improve and develop their devices and services. Neither does it intend to limit their options to trademark user interface elements or profile the user experience of brand-specific user interface implementations as a competitive edge.

2 References

2.1 Normative references

Normative references are not applicable in the present document.

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI EG 202 132: "Human Factors (HF); User Interfaces; Guidelines for generic user interface elements for mobile terminals and services".
- [i.2] ETSI TR 102 972: "Human Factors (HF); User Interfaces; Generic user interface elements for 3G/UMTS mobile devices, services and applications".
- [i.3] ETSI EG 202 417: "Human Factors (HF); User education guidelines for mobile terminals and services".
- [i.4] ETSI ETR 095: "Human Factors (HF); Guide for usability evaluations of telecommunications systems and services".
- [i.5] ISO 9241-11:2018: "Ergonomics of human-system interaction - Part 11: Usability: Definitions and concepts".

- [i.6] ETSI ETR 116: "Human Factors (HF); Human factors guidelines for ISDN Terminal equipment design".
- [i.7] ETSI EN 301 549: "Accessibility requirements suitable for public procurement of ICT products and services in Europe".
- [i.8] IEEE 802.11™: "WiFi standards family specifications".
- NOTE: Available at <https://ieeexplore.ieee.org>.
- [i.9] Bluetooth® SIG Core Specifications.
- NOTE: Available at www.bluetooth.com/specifications/bluetooth-core-specification.
- [i.10] Mobile & Wireless Forum (MWF) - Global Accessibility Reporting Initiative (GARI).
- NOTE: Available at www.gari.info.
- [i.11] CORDIS EU Research portal: "Terminology extraction, translation tools and comparable corpora".
- NOTE: Available at https://cordis.europa.eu/project/rcn/93820_en.html.
- [i.12] ISO 9999:2016: "Assistive products for persons with disability - Classification and terminology".
- [i.13] ISO/IEC 29138-1:2018: "Information technology - User interface accessibility - Part 1: User accessibility needs".
- [i.14] ISO/TC 37: "Language and terminology".
- NOTE: Available at <https://www.iso.org/committee/48104.html>.

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the following terms apply:

authentication: process or action of verifying the identity of a user or a process

consensus: general agreement, characterized by the absence of sustained opposition to substantial issues by any of the concerned interests and by a process that involves taking into account the views of all parties concerned and to reconcile any conflicting arguments

control function: operation that manages the interaction of the end user with a device, e.g. via buttons or gestures

design-for-all: design of products to be usable by all people, to the greatest extent possible, without the need for specialized adoption

device: physical device which interfaces with a telecommunications network, and hence to a service provider, to enable access to a telecommunications service, see ETSI TR 102 972 [i.2]

NOTE: A device also provides an interface to the user to enable the interchange of control actions and information between the user and the device, network or service provider.

emergency call: call from a user to an emergency control centre

end user: See user.

function: abstract concept of a particular piece of functionality in a device or service

generic: generalized set or general purpose set, often in the sense of basic or ordinary

ICT devices and services: devices or services for processing information and/or supporting communication, which has an interface to communicate with a user

impairment: any temporary or permanent; progressive, regressive or static; or intermittent or continuous reduction or loss of psychological, physiological or anatomical function or structure of a user (environmental included)

login: username and password to enter a computer, program, or website

mobile device: personal communication device, e.g. a smartphone, capable of communicating by using one or several radio technologies, including support for internet access

search engine: software system that is designed to carry out web searches based on keywords or characters specified by a user

setting: adjustment in a software program or hardware device that adjusts it to the user's preference

setup: way in which a device is organized, or arranged

societal services: services relating to society or social relations

term: word or a phrase describing a thing or expressing a concept, in a specific language, domain or context

NOTE: Based on the Oxford dictionary definition.

terminal: physical device which interfaces with a telecommunications network, and hence to a service provider, to enable access to a telecommunications service

NOTE: A terminal also provides an interface to the user to enable the interchange of control actions and information between the user and the terminal, network or service provider.

terminology: vocabulary of technical terms in a particular field, subject, science, or art; nomenclature

usability: effectiveness, efficiency and satisfaction with which specified users can achieve specified goals (tasks) in a specified context and particular environments, see ETSI ETR 095 [i.4] and ISO 9241-11 [i.5]

NOTE: In telecommunications, usability includes the concepts of learnability and flexibility; and reference to the interaction of more than one user (the A and B parties) with each other and with the terminals and the telecommunications system, see ETSI ETR 116 [i.6].

user: person who uses a telecommunications device to gain access to and control of a telecommunications service or application

NOTE: The user may or may not be the person who has subscribed to the provision of the service or owns the terminal. Also, the user may or may not be a person with impairments.

User Interface (UI): physical and logical interface through which a user communicates with a telecommunications terminal or via a terminal to a telecommunications service (also called Man-Machine Interface (MMI))

NOTE: The communication is bi-directional in real time and the interface includes control, display, audio, haptic or other elements, in software or hardware.

user requirements: requirements based on user needs and capabilities, on a telecommunication service and any of its supporting components, terminals and interfaces, in order to make use of this service in the easiest, safest, most efficient and most secure way

voice (spoken) command: verbal or other auditory dialogue format which enables the user to input commands to control a device, service or application

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3D	Three-Dimensional
3G	3 rd Generation (mobile networks)
4G	4 th Generation (mobile networks)
APN	Access Point Name
ATM	Automated Teller Machine
AV	AudioVisual
B2B	Business to Business
CC	Closed Caption
CCNR	Call Completion on No Reply
CEAM	Carte Européenne d'Assurance Maladie
CLIP	Caller Line Identification Presentation
CLIR	Caller Line Identity Restriction
EDGE	Enhanced Data rates for GSM Evolution
EHIC	European Healthcare Identity Card
eSIM	embedded SIM
FTP	File Transfer Protocol
GARI	Global Accessibility Reporting Initiative
GPRS	General Packet Radio Service
GPS	Global Positioning System
GSM	Global System for Mobile telecommunication
HDR	High Dynamic Range
HF	Human Factors
HSPA	High-Speed Packet Access
HSPA+	evolved High-Speed Packet Access
HTTP	Hypertext Transfer Protocol
HTTPS	Hypertext Transfer Protocol Secure
I/O	Input/Output
IBAN	International Bank Account Number
ICE	In Case of Emergency
ICT	Information and Communication Technologies
ID	IDentification
IM	Instant Messaging
IMEI	International Mobile Equipment Identity
IP	Internet Protocol
IR	InfraRed
IrDA	Infrared Data Association
ISDN	Integrated Services Digital Network
ISO	International Organization for Standardization
LED	Light Emitting Diode
LTE	Long Term Evolution
MMI	Man-Machine Interface
MMS	Multimedia Message Service
NFC	Near-Field Communication
OS	Operating System
PA	Public Address
PC	Personal Computer
PIN	Personal Identity Number
PUK	Personal Unblocking Key
RF	Radio Frequency
RH	RHesus
RTT	Real-Time Text
SD	Secure Digital
SEPA	Single Euro Payments Area
SIM	Subscriber Identity Module
SMS	Short Message Service
SMTP	Simple Mail Transfer Protocol
SOS	Save Our Souls

TAN	Transaction Number
TTS	Text To Speech
TV	Television
UI	User Interface
UICC	Universal Integrated Circuit Card
UMTS	Universal Mobile Telecommunication System
URI	Uniform Resource Identifier
URL	Uniform Resource Locator
USB	Universal Serial Bus
USB-C	Universal Serial Bus - C type
USIM	Universal Subscriber Identity Module
VPN	Virtual Private Network
WAP	Wireless Application Protocol
Wi-Fi®	Wireless-Fidelity

NOTE: Commercial name for the wireless network standard family 802.11, also known as WLAN (see [i.8]).

WLAN Wireless Local Area Network

4 User-centred development of terms

Intended *users* of the present document are those designing, developing, implementing, and deploying user interfaces for interaction with mobile ICT devices, services, and applications.

Intended *end users* mentioned in the present document are people who use mobile ICT devices, services, and applications ranging from first time users to experienced users.

Uniformity in the interactive elements increases the transfer of learning between different devices, services, and applications. Such knowledge transfer becomes even more important in a world of ubiquitous devices and services used by heterogeneous users. In particular, harmonized terms (used across devices, services, and applications from different manufacturers and providers) improve the overall usability of the entire ICT ecosystem. Use of the harmonized vocabulary in the present document for the development of ICT devices, services, and applications will enable end users to apply knowledge and experience, ensuring a user-friendly experience.

The present work goes beyond the automatic generation of bilingual terminologies, e.g. [i.11], addressing the automatic generation of bilingual terminologies, by applying a user-centred approach.

A consistent, harmonized, and accessible terminology will particularly benefit end users with temporary or permanent functional variations, such as those with literacy difficulties, or people with visual or cognitive impairments. A harmonized terminology should be easy to remember, recognize, and retrieve, and the individual terms should represent their related concepts well. A well-designed user terminology should have a shallow learning curve and cover most common tasks and use cases users are likely to encounter through the most common, every-day use patterns.

Finally, the terminology should also be useful for manufacturers' **terminology management** systems, a process to organize and associate terms with a clear set of rules for their usage (e.g. through a term base), also fostering its inclusion and, therefore, harmonization across user guides and user interfaces. Companies invest in terminology management in order to ensure that the terms used in internal documents, external documents such as user guides, in user interfaces, and for marketing information such as advertisements are used consistently.

Unmanaged and outdated terminology will easily become inconsistent, leading to time and resource-intensive documentation processes. It typically also reduces user satisfaction, limits cognitive accessibility and is often a main reason to the under-use of potentially beneficial functionality.

ETSI EG 202 417 [i.3] provides detailed guidelines on how terminology management can help improve the quality of user documentation. Applying these assists the user-centred generation of harmonised terminologies. Furthermore, prioritizing the user-centred view over "technical perfection" helps selecting terms the user will understand.

ISO 9999:2016 [i.12] and ISO/IEC TR 29138-1:2018 [i.13] are useful references and inspirational sources when developing mobile accessibility solutions and have been consulted, together with other functionality-area specific references (e.g. in the field of banking services or healthcare services, where terminology-related national regulations may exist and apply, and should be respected).