

Recommendation **ITU-T F.760.1 (12/2022)**

SERIES F: Non-telephone telecommunication services
Multimedia services

Requirements and reference framework for emergency rescue systems

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Recommendation ITU-T F.760.1

Requirements and reference framework for emergency rescue systems

Summary

Recommendation ITU-T F.760.1 describes the application scenarios, functional requirements and reference architecture of pre-hospital emergency rescue and applies these to the planning and designing of emergency rescue systems in emergency centres, hospitals and other medical institutions. The appendix to this Recommendation includes some use cases of the proposed reference system.

History

Edition	Recommendation	Approval	Study Group	Unique ID*
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Emergency rescue system, reference framework, requirements, use case.

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FOREWORD

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

The approval of ITU-T Recommendations is covered by the procedure laid down in WTSA Resolution 1.

In some areas of information technology which fall within ITU-T's purview, the necessary standards are prepared on a collaborative basis with ISO and IEC.

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Recommendation ITU-T F.760.1

Requirements and reference framework for emergency rescue systems

1 Scope

The Recommendation specifies the requirements and reference framework for emergency rescue systems.

The scope of this Recommendation includes:

- requirements for an emergency rescue system;
- reference framework for an emergency rescue system;
- use cases for an emergency rescue system.

2 References

The following ITU-T Recommendations and other references contain provisions which, through reference in this text, constitute provisions of this Recommendation. At the time of publication, the editions indicated were valid. All Recommendations and other references are subject to revision; users of this Recommendation are therefore encouraged to investigate the possibility of applying the most recent edition of the Recommendations and other references listed below. A list of the currently valid ITU-T Recommendations is regularly published. The reference to a document within this Recommendation does not give it, as a stand-alone document, the status of a Recommendation.

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| [ITU-T K.116] | Recommendation ITU-T K.116 (2019), <i>Electromagnetic compatibility requirements and test methods for radio telecommunication terminal equipment</i> . |
| [ITU-T M.3050.x] | Recommendation ITU-T M.3050.x-series (2007), <i>Enhanced Telecom Operations Map (eTOM)</i> . |
| [ITU-T Q.3741] | Recommendation ITU-T Q.3741 (2019), <i>Signalling requirements for SD-WAN service</i> . |
| [ITU-T Y.3500] | Recommendation ITU-T Y.3500 (2014), <i>Information technology – Cloud computing – Overview and vocabulary</i> . |
| [ITU-T Y.3502] | Recommendation ITU-T Y.3502 (2014), <i>Information technology – Cloud computing – Reference architecture</i> . |
| [ITU-R M.1787] | Recommendation ITU-R M.1787-4 (2022), <i>Description of systems and networks in the radionavigation-satellite service (space-to-Earth and space-to-space) and technical characteristics of transmitting space stations operating in the bands 1 164-1 215 MHz, 1 215-1 300 MHz and 1 559-1 610 MHz</i> . |
| [Bluetooth CS 5.3] | Bluetooth CS 5.3 (2021), <i>Bluetooth Core Specification, v5.3</i> . |
| [ETSI GS MEC 003] | ETSI GS MEC 003 V3.1.1 (2022-03), <i>Multi-access Edge Computing (MEC): Framework and Reference Architecture</i> . |
| [ETSI TS 123 501] | ETSI TS 123 501 V17.6.0 (2022-09), <i>5G; System Architecture for the 5G System (5GS) (3GPP TS 23.501 version 17.6.0 Release 17)</i> . |
| [ETSI TS 123 503] | ETSI TS 123 503 V17.6.0 (2022-09), <i>5G; Policy and charging control framework for the 5G System (5GS); Stage 2 (3GPP TS 23.503 version 17.6.0 Release 17)</i> . |

[ETSI TS 129 244]	ETSI TS 129 244 V17.6.0 (2022-10), <i>LTE; 5G; Interface between the Control Plane and the User Plane nodes (3GPP TS 29.244 version 17.6.0 Release 17)</i> .
[IEC 60601-1-2]	IEC 60601-1-2 (2014), <i>Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirements and tests</i> .
[IEC 60950-1]	IEC 60950-1 (2013), <i>Information technology equipment – Safety – Part 1: General requirements</i> .
[IEC 62680-2-1]	IEC 62680-2-1 (2015), <i>Universal Serial Bus interfaces for data and power – Part 2-1: Universal Serial Bus Specification, Revision 2.0</i> .
[IEC 62680-3-1]	IEC 62680-3-1 (2017), <i>Universal Serial Bus interfaces for data and power – Part 3-1: Universal Serial Bus 3.1 Specification</i> .
[IEEE 802.11]	IEEE 802.11-2020, <i>IEEE Standard for Information Technology – Telecommunications and Information Exchange between Systems – Local and Metropolitan Area Networks – Specific Requirements – Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications</i> .
[ISO 12052]	ISO 12052 (2017), <i>Health informatics – Digital imaging and communication in medicine (DICOM) including workflow and data management</i> .
[ISO/HL7 21731]	ISO/HL7 21731 (2014), <i>Health informatics – HL7 version 3 – Reference information model – Release 4</i> .
[ISO/IEC 7816-1]	ISO/IEC 7816-1 (2011), <i>Identification cards – Integrated circuit cards – Part 1: Cards with contacts – Physical characteristics</i> .
[ISO/IEC 14443-1]	ISO/IEC 14443-1 (2018), <i>Cards and security devices for personal identification – Contactless proximity objects – Part 1: Physical characteristics</i> .

3 Definitions

3.1 Terms defined elsewhere

This Recommendation uses the following term defined elsewhere:

3.1.1 service level agreement (SLA) [ITU-T Y.3500]: Documented agreement between the service provider and customer that identifies services and service targets.

NOTE 1 – A service level agreement can also be established between the service provider and a supplier, an internal group or a customer acting as a supplier.

NOTE 2 – A service level agreement can be included in a contract or another type of documented agreement.

3.2 Terms defined in this Recommendation

None.

4 Abbreviations and acronyms

This Recommendation uses the following abbreviations and acronyms:

5G	5th Generation of Mobile Networks
AF	Application Function

AI	Artificial Intelligence
APN	Access Point Name
AR	Augmented Reality
ATSSS	Access Traffic Steering, Switching and Splitting
BSS	Business Support Systems
COVID-19	Corona Virus Disease 2019
CPR	Cardiopulmonary Resuscitation
CSP	Communication Service Provider
DICOM	Digital Imaging and Communications in Medicine
DNN	Data Network Name
ECG	Electrocardiogram
eMBB	enhanced Mobile Broadband
EMC	essential Electromagnetic Compatibility
GIS	Geography Information System
GNSS	Global Navigation Satellite System
HDMI	High Definition Multimedia Interface
HL7	Health Level Seven
ICU	Intensive Care Unit
IEEE	Institute of Electrical and Electronics Engineers
iGW	industry Gateway
iMEP	industry MEC Platform
IMT	International Mobile Telecommunications
IoT	Internet of Things
IPv4	Internet Protocol Version 4
IPv6	Internet Protocol Version 6
KPI	Key Performance Indicator
LAN	Local Area Network
MEC	Multi-access Edge Computing
MEO	Mobile Edge Orchestrator
MEP	MEC Platform
MEPM	MEC Platform Manager
MPDS	Medical Priority Dispatch System
NAPT	Network Address Port Translation
NAT	Network Address Translation
NLP	Natural Language Processing
OSS	Operation Support Systems
PCI-E	Peripheral Component Interconnect Express