



## Multi-access Edge Computing (MEC); Terminology

**STANDARD PREVIEW**  
(standards.iteh.ai)  
Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/614231-67b3-47ad-b26f-0d67b555e487/etsi-gs-mec-001-v2.1.1-2019-01>

### *Disclaimer*

The present document has been produced and approved by the Multi-access Edge Computing (MEC) ETSI Industry Specification Group (ISG) and represents the views of those members who participated in this ISG. It does not necessarily represent the views of the entire ETSI membership.

---

**Reference**RGS/MEC-0001v211Terms

---

**Keywords**acronym, MEC, terminology

---

**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 - NAF 742 C  
Association à but non lucratif enregistrée à la  
Sous-Préfecture de Grasse (06) N° 7803/88

---

**Important notice**

---

The present document can be downloaded from:

<http://www.etsi.org/standards-search>

The present document may be made available in electronic versions and/or in print. The content of any electronic and/or print versions of the present document shall not be modified without the prior written authorization of ETSI. In case of any existing or perceived difference in contents between such versions and/or in print, the prevailing version of an ETSI deliverable is the one made publicly available in PDF format at [www.etsi.org/deliver](http://www.etsi.org/deliver).

Users of the present document should be aware that the document may be subject to revision or change of status. Information on the current status of this and other ETSI documents is available at

<https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx>

If you find errors in the present document, please send your comment to one of the following services:

<https://portal.etsi.org/People/CommiteeSupportStaff.aspx>

---

**Copyright Notification**

---

No part may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm except as authorized by written permission of ETSI.

The content of the PDF version shall not be modified without the written authorization of ETSI.

The copyright and the foregoing restriction extend to reproduction in all media.

© ETSI 2019.

All rights reserved.

**DECT™**, **PLUGTESTS™**, **UMTS™** and the ETSI logo are trademarks of ETSI registered for the benefit of its Members.

**3GPP™** and **LTE™** are trademarks of ETSI registered for the benefit of its Members and of the 3GPP Organizational Partners.

**oneM2M™** logo is a trademark of ETSI registered for the benefit of its Members and of the oneM2M Partners.

**GSM®** and the GSM logo are trademarks registered and owned by the GSM Association.

---

# Contents

Intellectual Property Rights .....	4
Foreword.....	4
Modal verbs terminology.....	4
1 Scope .....	5
2 References .....	5
2.1 Normative references .....	5
2.2 Informative references.....	5
3 Definition of terms, symbols and abbreviations.....	5
3.1 Terms.....	5
3.2 Symbols.....	7
3.3 Abbreviations .....	7
History .....	8

**iTeh STANDARD PREVIEW**  
(standards.iteh.ai)

Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/6743331-67b3-47ad-b26f-0d67b355e487/etsi-gs-mec-001-v2.1.1-2019-01>

---

# Intellectual Property Rights

## Essential patents

IPRs essential or potentially essential to normative deliverables may have been declared to ETSI. The information pertaining to these essential IPRs, if any, is publicly available for **ETSI members and non-members**, and can be found in ETSI SR 000 314: "*Intellectual Property Rights (IPRs); Essential, or potentially Essential, IPRs notified to ETSI in respect of ETSI standards*", which is available from the ETSI Secretariat. Latest updates are available on the ETSI Web server (<https://ipr.etsi.org/>).

Pursuant to the ETSI IPR Policy, no investigation, including IPR searches, has been carried out by ETSI. No guarantee can be given as to the existence of other IPRs not referenced in ETSI SR 000 314 (or the updates on the ETSI Web server) which are, or may be, or may become, essential to the present document.

## Trademarks

The present document may include trademarks and/or tradenames which are asserted and/or registered by their owners. ETSI claims no ownership of these except for any which are indicated as being the property of ETSI, and conveys no right to use or reproduce any trademark and/or tradename. Mention of those trademarks in the present document does not constitute an endorsement by ETSI of products, services or organizations associated with those trademarks.

---

# Foreword

This Group Specification (GS) has been produced by ETSI Industry Specification Group (ISG) Multi-access Edge Computing (MEC).

---

# Modal verbs terminology

In the present document "**shall**", "**shall not**", "**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).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

---

# 1 Scope

The present document provides a glossary of terms relating to the conceptual, architectural and functional elements within the scope of work on Multi-access Edge Computing.

The purpose of this glossary is to ensure that all terminology defined in the present document is used in a consistent way by all ETSI MEC deliverables as well as in wider industry discussions on Multi-access Edge Computing.

---

## 2 References

### 2.1 Normative 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.

Referenced documents which are not found to be publicly available in the expected location might be found at <https://docbox.etsi.org/Reference>.

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 necessary for the application of the present document.

Not applicable.

### 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 GS NFV 003: "Network Functions Virtualisation (NFV); Terminology for Main Concepts in NFV".
- [i.2] ETSI TS 123 002: "Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; Network architecture (3GPP TS 23.002)".

---

## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

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

**aggregation point:** location in a physical network deployment intermediate between the core network and a number of homogeneous or heterogeneous network termination points (base station, cable modems, WLAN access points, etc.) which can act as a location for a MEC host

**application context:** set of reference data about an application instance that is used to identify it, enable lifecycle management operations and associate it with its device application

**application rules and requirements:** rules and requirements associated to MEC applications, such as required resources, maximum latency, required or useful services, traffic rules, DNS rules, mobility support, etc.

**client application:** application software running on a device (e.g. UE, laptop with internet connectivity) in order to utilize functionality provided by one or more specific MEC application(s)

**device application:** application running in the device that has the capability to interact with the MEC system via the user application lifecycle management proxy

**lawful interception:** action (based on the law), performed by a network operator/service provider/access provider, of making available certain information and providing that information to a law enforcement monitoring facility

**lifecycle management:** set of functions required to manage the instantiation, maintenance and termination of a MEC application instance

**MEC application:** application that can be instantiated on a MEC host within the MEC system and can potentially provide or consume MEC services

**MEC host:** entity that contains a MEC platform and a virtualisation infrastructure which provides compute, storage and network resources to MEC applications

**MEC host level management:** components which handle the management of the MEC specific functionality of a particular MEC platform, MEC host and the MEC applications running on it

**MEC management:** MEC system level management and MEC host level management

**MEC platform:** collection of functionality that is required to run MEC applications on a specific MEC host virtualisation infrastructure and to enable them to provide and consume MEC services, and that can provide itself a number of MEC services

**MEC service:** service provided via the MEC platform either by the MEC platform itself or by a MEC application

**MEC system:** collection of MEC hosts and MEC management necessary to run MEC applications

**MEC system level management:** management components which have the overview of the complete MEC system

**mobile edge application:** MEC application that can be instantiated on a mobile edge host within the mobile edge system and can potentially provide or consume mobile edge services

**mobile edge host:** MEC host that contains a mobile edge platform and a virtualisation infrastructure which provides compute, storage and network resources to mobile edge applications

**mobile edge host level management:** components which handle the management of the mobile edge specific functionality of a particular mobile edge platform, mobile edge host and the mobile edge applications running on it

**mobile edge management:** mobile edge system level management and mobile edge host level management

**mobile edge platform:** MEC platform to run mobile edge applications on a specific mobile edge host virtualisation infrastructure and to enable them to provide and consume mobile edge services, and that can provide itself a number of mobile edge services

**mobile edge service:** MEC service provided via the mobile edge platform either by the mobile edge platform itself or by a mobile edge application

**mobile edge system:** special kind of MEC system that is a collection of mobile edge hosts and mobile edge management necessary to run mobile edge applications within an operator network or a subset of an operator network

**mobile edge system level management:** management components which have the overview of the complete mobile edge system

**Multi-access Edge Computing:** system which provides an IT service environment and cloud-computing capabilities at the edge of an access network which contains one or more type of access technology, and in close proximity to its users

**Network Functions Virtualisation (NFV):** principle of separating network functions from the hardware they run on by using virtual hardware abstraction, as defined in ETSI GS NFV 003 [i.1]

**retained data:** set of data elements for a specific subscriber/user related to a specific service transaction

**user application:** MEC application that is instantiated in the MEC system in response to a request from a user via a device application

**user context:** application-specific runtime data maintained by the MEC application, which is associated with a user of that application

**User Equipment (UE):** mobile equipment used to access the operator's mobile network and supporting applications that transmit IP packets over the mobile network

NOTE: User Equipment is originally defined in ETSI TS 123 002 [i.2]. For the purpose of the present document, the definition above is used instead.

**virtualised resource:** compute, storage or network resource provided by the virtualisation infrastructure to a mobile edge application

## 3.2 Symbols

Void.

## 3.3 Abbreviations

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

3GPP	3 <sup>rd</sup> Generation Partnership Project
DNS	Domain Name System
IP	Internet Protocol
LAN	Local Area Network
MEC	Multi-access Edge Computing
MEO	MEC Orchestrator
MEP	MEC Platform
MEPM	MEC Platform Manager
NFV	Network Functions Virtualisation
RAN	Radio Access Network
UE	User Equipment
VM	Virtual Machine
WLAN	Wireless LAN

STANDARD PREVIEW  
<https://standards.iteh.ai/catalog/standards/sist/674331-67b3-47ad-b26f-0d67b55e487/etsi-gs-mec-001-v2.1.1-2019-01>  
 Full standard: <https://standards.iteh.ai/catalog/standards/sist/674331-67b3-47ad-b26f-0d67b55e487/etsi-gs-mec-001-v2.1.1-2019-01>

## History

Document history		
V1.1.1	March 2016	Publication
V2.1.1	January 2019	Publication

**iTeh STANDARD PREVIEW**  
(standards.iteh.ai)

Full standard:  
<https://standards.iteh.ai/catalog/standards/sist/67743331-67b3-47ad-b26f-0d67b555e487/etsi-gs-mec-001-v2.1.1-2019-01>