



GROUP REPORT

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

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**Reference**

RGR/MEC-0001v321-Terms

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# Foreword

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

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# 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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# 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.

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## 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 GR 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)".

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## 3 Definition of terms, symbols and abbreviations

### 3.1 Terms

#### A

**access provider:** entity providing a user of some network with access from the user's device to that network

**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 descriptor:** descriptor provided by the application provider which describes the application rules and requirements of a MEC application

**application package:** bundle of files provided by an application provider, to on-boarded into a MEC system and used by the MEC system for application instantiation, including package metadata (application descriptor, manifest) and artifacts (software image(s), e.g. VM image or container images, and optionally other files), or URIs to artifacts

**application provider:** entity that manages and distributes software-based services and solutions to customers

**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.

## B

Void.

## C

**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)

**content provider:** entity (e.g. a web server, or a content distribution network) that provides content to consumers

## D

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

## E - H

Void.

## I

**infrastructure provider:** entity that provides components into the network infrastructure ranging from compute elements and/or platforms to a software component (i.e. software component examples include security, virtualisation, controller, etc.)

## J - K

Void.

## L

**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

## M

**MEC application:** virtualised software application that can be instantiated and run on virtualisation infrastructure of the MEC system and can potentially provide and/or consume MEC services

**MEC federation:** federated model of MEC systems enabling shared usage of MEC services and applications

**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 (MEC):** 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

## N

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

**network operator:** entity that provides a network for the provision of telecommunications services

NOTE: If the same entity also offers services it also becomes the service provider.

## O - Q

Void.

## R

**resource:** object with a type, associated data, a set of methods that operate on it, and, if applicable, relationships to other resources

NOTE: A resource is a fundamental concept in a RESTful API. Resources are acted upon by the RESTful API using the Methods (e.g. POST, GET, PUT, DELETE, etc.). Operations on Resources affect the state of the corresponding managed entities.

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

## S

**service provider:** entity providing a service to the end-user

## T

Void.

## U

**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.

## V

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

## W - Z

Void.

## 3.2 Symbols

Void.

## 3.3 Abbreviations

### 0 - 9

3GPP	3 <sup>rd</sup> Generation Partnership Project
4G	4 <sup>th</sup> Generation
5G	5 <sup>th</sup> Generation
5GS	5G System

### A-F

ACK/ack	ACKnowledgement
API	Application Programming Interface
App/app	Application/application
CAPEX	CAPital EXpenditure
CAPIF	Common API Framework for 3GPP northbound APIs
CCF	CAPIF Core Function
DNS	Domain Name System
E-UTRA	Evolved Universal Terrestrial Radio Access
EPS	Evolved Packet System
FTP	File Transfer Protocol
FQDN	Fully Qualified Domain Name

### G

GPRS	General Packet Radio Service
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GR	Group Report
GRE	Generic Routing Encapsulation
GS	Group Specification
GSM	Global System for Mobile communications
GSMA	GSM Association
GTP	GPRS Tunnelling Protocol
GTP-U	GPRS Tunnelling Protocol - User plane
GW	Gateway

## H - J

HTTP	Hyper Text Transfer Protocol
HTTPS	HTTP over TLS
IETF	Internet Engineering Task Force
IP	Internet Protocol
ISG	Industry Specification Group
IT	Information Technology
JSON	JavaScript Object Notation

## K

KPI	Key Performance Indicator
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## L

LAN	Local Area Network
LCM	Life Cycle Management
LTE	Long Term Evolution

## M

MAC	Media Access Control
MANO	Management And Orchestration
MEAO	MEC Application Orchestrator
MEC	Multi-access Edge Computing
MEF	MEC Federator
MEFB	MEC Federation Broker
MEFM	MEC Federation Manager
MEO	MEC Orchestrator
MEP	MEC Platform
MEPM	MEC Platform Manager
MEPM-V	MEC Platform Manager - NFV
MNO	Mobile Network Operator
MQTT	Message Queue Telemetry Transport

## N

NFV	Network Functions Virtualisation
NFVI	Network Functions Virtualisation Infrastructure
NFVO	Network Functions Virtualisation Orchestrator
NGMN	Next Generation Mobile Network
NR	New Radio
NS	Network Service
NSD	Network Service Descriptor

## O - Q

OEM	Original Equipment Manufacturer
OSS	Operations Support System

PLMN	Public Land Mobile Network
QCI	Quality Class Indicator
QoE	Quality of Experience
QoS	Quality of Service

## R

RAN	Radio Access Network
reconfig	reconfiguration
ref	reference
req	request
REST	REpresentational State Transfer
RFC	Request For Comments
RNI	Radio Network Information
RNIS	Radio Network Information Service
RPC	Remote Procedure Call

## S - T

TCP	Transmission Control Protocol
TLS	Transport Layer Security

## U

UE	User Equipment
UMTS	Universal Mobile Telecommunications System
UP	User Plane
UPF	User Plane Function
URI	Uniform Resource Indicator or Uniform Resource Identifier or Universal Resource Identifier
UTC	Coordinated Universal Time

## V

V2X	Vehicle-to-Everything
VIM	Virtualised Infrastructure Manager
VM	Virtual Machine
VNF	Virtualised Network Function
VNFM	Virtualised Network Function Manager

## W - Z

WLAN	Wireless LAN
XML	eXtensible Markup Language

## Annex A: Change History

Date	Version	Information about changes
July 2021	3.0.1	Base line for phase 3
August 2021	3.0.2	MEC(21)000363 MEC001 add some term definitions MEC(21)000365 MEC001 add some abbreviations
October 2021	3.0.3	MEC(21)000483 MEC001 prepare for stable draft MEC(21)000490r1 MEC001 capturing short expressions as abbreviations MEC(21)000498 MEC001 postpone abbreviations for federation MEC(21)000502 MEC001-update to the abbreviations
November 2021	3.0.4	Final draft for publication as 3.1.1
January 2022	3.1.2	Base line for v3.2.1
January 2022	3.1.3	MEC(22)000024 MEC001 restore abbreviations for federation MEC(22)000025r1 MEC001 add missing terms for consistency MEC(22)000030r1 MEC 001 MEC application definition
November 2023	3.1.4	MEC(23)000366r1 MEC001 - addition of new abbreviations MEC(23)000438 MEC001 add abbreviations from contribution 399r1
December 2023	3.1.5	Cleanup by EditHelp Removed Editor's note reminding on MEC040 terms Final draft for MEC Remote Consensus (RC) review
January 2024	3.1.6	Final draft v3.1.6 is similar to v3.1.5 and is submitted to MEC RC for approval, as there were no comments during the RC for review

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## History

<b>Document history</b>		
V1.1.1	March 2016	Publication as ETSI GS MEC 001
V2.1.1	January 2019	Publication as ETSI GS MEC 001
V3.1.1	January 2022	Publication
V3.2.1	February 2024	Publication