

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1929

DATE: AUGUST 1, 2026

PROJECT DP12854

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
DEFINITIONS:		
Definitions New:	H04W	4/02, 4/021, 4/024, 4/029, 4/08, 4/12, 4/14, 4/16, 4/18, 4/20, 4/21, 4/23, 4/30, 4/33, 4/35, 4/38, 4/40, 4/42, 4/44, 4/46, 4/48, 4/50, 4/60, 4/70, 4/80, 4/90
Definitions Modified:	H04W	4/00, 4/06, 4/10, 4/24

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following *[Check the ones included]:*

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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2. A. DEFINITIONS (new)

H04W4/02

Definition statement

This place covers:

Providing communication services based on location information provided by the user/terminal or determined by the network.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Mobility data transfer	H04W8/08
Access restriction based on user location or mobility data	H04W48/04
Registration, e.g. affiliation to network; De-registration, e.g. terminating affiliation	H04W60/00
Locating users or terminals for network management purpose	H04W64/00
Navigation; Navigational instruments	G01C21/00
Radio direction-finding; Radio navigation; Determining distance or velocity by use of radio waves; Locating or presence-detecting by use of the reflection or re-radiation of radio waves; Analogous arrangements using other waves	G01S

H04W4/021

Definition statement

This place covers:

Providing communication services based on location information related to a particular location area, e.g. a geofence, point of interest [POI], venue, boundary, region, place data, indoor location information, floor and room numbers for buildings or streets areas.

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H04W4/024

Definition statement

This place covers:

Providing communication services to guide a user how to operate, e.g. switching a device on or off, turning left or right.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Navigation; Navigational instruments	G01C21/00
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H04W4/029

Definition statement

This place covers:

Providing communication services using historical location or tracking data; using location statistics; treating a whole trajectory; predicting position or location information, heating maps, floating location data.

Examples: Observance of people, e.g. a lost child or aged wanderer, management of sales vehicles, indication of the location of communication partners.

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References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Traffic control	G08G1/00
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H04W4/08

Definition statement

This place covers:

- Affiliation of a (plurality of) subscribers to an existing group. De-affiliation thereof.
- Creation, administration of group associations in a data repository. Transfer, updates thereof.
- Assigning IDs to members of services group (real or logical entities).

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Self-organizing networks, e.g. ad-hoc networks or sensor networks	H04W84/18
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H04W 4/12

Definition statement

This place covers:

- Arrangements for storage of a message signal, retrieval or delivery thereof.
- Providing indication or alert to user or terminal of the reception or delivery of messages.

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References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Notification of users	H04W68/00
Message switching systems	H04L51/00

H04W4/14

Definition statement

This place covers:

Arrangements whereby the amount of message information is restricted to predetermined levels in order to allow delivery, in a single transmission, over generally a non-traffic channel.

H04W4/16

Definition statement

This place covers:

- Special treatment of communication when parties are unreachable, unavailable or busy, e.g. call back.
- Redirecting communication for a specified user or terminal to another destination, e.g. call blocking.

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References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Automatic or semi-automatic exchanges; Systems providing special services or facilities to subscribers	H04M3/42
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H04W4/18

Definition statement

This place covers:

Modifying the format or nature of transmitted or received information by the network with, e.g. the purpose of adapting delivery to user or terminal, e.g. text to speech.

Synonyms and Keywords

In patent documents the following abbreviations are often used:

TTY	Teletype; Speech to text conversion
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H04W4/20

Definition statement

This place covers:

Transmission of application signalling information.

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Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

application signalling information	means information produced and delivered by the network to the user, in order to control operation or inform the user (battery status, application usage, metering information: Home Energy Monitor, Google Powermeter and Apple Smart-Home Energy Management)
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Synonyms and Keywords

In patent documents the following abbreviations are often used:

CLID	Caller Line Identification
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H04W4/21

Definition statement

This place covers:

- Transmission of signalling information for socializing user terminals, e.g. friends acknowledging signalling (Facebook).
- Transmission of signalling information for pairing services, e.g. joint bump action signalling services.
- Triggering of social signalling information, e.g. via gestures.

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Informative references

Attention is drawn to the following places, which may be of interest for search:

Input arrangements for transferring data to be processed into a form capable of being handled by the computer; Output arrangements for transferring data from processing unit to output unit, e.g. interface arrangements	G06F3/00
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H04W4/23

Definition statement

This place covers:

Transmission of advertisement relevant signalling information, e.g. what advertisement has been clicked by the user.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Marketing, e.g. market research and analysis, surveying, promotions, advertising, buyer profiling, customer management or rewards; Price estimation or determination	G06Q30/02
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H04W4/30

Definition statement

This place covers:

Providing communication services specifically implemented or designed for an environment.

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H04W4/33

Definition statement

This place covers:

Providing communication services specifically implemented or designed for an indoor environment, e.g. in buildings.

H04W4/35

Definition statement

This place covers:

Providing communication services specifically implemented or designed for management of goods and merchandise, e.g. between merchandiser, third parties and the user.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment architectures, schemes or protocols using wireless devices	G06Q20/32
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H04W4/38

Definition statement

This place covers:

Providing communication services specifically implemented or designed for collecting sensor information.

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References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Self-organizing networks, e.g. ad-hoc networks or sensor networks	H04W84/18
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H04W4/40

Definition statement

This place covers:

Providing communication services specifically implemented or designed for vehicles.

H04W4/42

Definition statement

This place covers:

Providing communication services specifically implemented or designed for mass transport vehicles (bus, train, airplane), e.g. to enable services for passengers (ticketing service, check in, check out).

H04W4/44

Definition statement

This place covers:

Providing communication services specifically implemented or designed for communication between vehicles and infrastructures, e.g. vehicle-to-cloud [V2C] or vehicle-to-home [V2H] (e.g. vehicle-to-server or vehicle-to-cloud), e.g. for road use measurement or to avoid traffic jams.

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References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Traffic control systems for road vehicles	G08G1/00
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Synonyms and Keywords

In patent documents the following abbreviations are often used:

DSRC	Dedicated Short-Range Communication
MTC	Machine Type Communication
IOT	Internet of Things

H04W 4/46

Definition statement

This place covers:

Providing communication services specifically implemented or designed for communication between vehicles (vehicle-to-vehicle communication [V2V]), e.g. to enable communication services between vehicles.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Self-organizing networks, e.g. ad-hoc networks or sensor networks	H04W84/18
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H04W4/48

Definition statement

This place covers:

Providing communication services specifically implemented or designed for in-vehicle communication, e.g. to enable wireless communication services between entities located on a vehicle.

H04W4/50

Definition statement

This place covers:

Providing communication services for provisioning or reconfiguring of entities at third party servers or application servers or in user- or machine-related terminals within the wireless network, e.g. to enable service changes based on any information from the wireless network.

Examples: Services for over-the-air [OTA] service updates with or without initial bootstrapping, OMA DM, OMA OTA, OMA bootstrapping.

H04W4/60

Definition statement

This place covers:

Providing communication services for managing of subscription-based services (service registration, service activation, service restriction) at third-party servers or service providers, or operators in the wireless network or via record carriers (SIM application toolkits).

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H04W4/70**Definition statement***This place covers:*

Providing communication services for Machine-to-Machine communication. A wireless communication service is performed between one or more entities that do not necessarily need human interaction. This autonomously wireless communication service is so-called Machine-to-Machine service [M2M] or Machine Type Communications service [MTC]. MTC is typically characterised by features such as a large number of devices, small data transmission and low mobility. A network permitting an MTC service is expected to cater for the specific nature of such communication. The viewpoint of [H04W4/70](#) is on such MTC services.

Synonyms and Keywords*In patent documents the following abbreviations are often used:*

M2M	Machine-to-Machine communication
MTC	Machine Type Communication
IOT	Internet of Things

H04W4/80**Definition statement***This place covers:*

Providing communication services using short range communication, e.g. nearfield communication [NFC], radio frequency identification [RFID], dedicated short range communication [DSRC] or low energy communication, e.g. BLE for enabling proximity services (D2D services, PROXIM services, Wi-Fi Direct® services, BLE services).

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Synonyms and Keywords

In patent documents the following abbreviations are often used:

DSRC	Dedicated short-range communications
NFC	Near Field Communication
RFID	Radio-frequency identification
BLE	Bluetooth Low Energy
D2D	Device-to-Device communication
PROXIM	Proximity Services
Wi-Fi Direct®	Wi-Fi Direct® services

H04W4/90

Definition statement

This place covers:

Providing communication services for handling of emergency or hazardous situations, e.g. 3GPP Earthquake and Tsunami Warning systems [ETWS].

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2. A. DEFINITIONS (modified)

H04W4/00

Glossary of terms

Replace: The existing Glossary of terms table with the following updated table.

affiliated	means a user or terminal being recognised by a network and/or authorised to use network resources
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H04W4/06

Insert: The following new Definition statement.

Definition statement

This place covers:

- Allowing a plurality of users or terminals to be included in a single communication.
- Delivery of a message signal substantially simultaneously to a plurality of recipients.
- Providing services only to a limited group of users.
- Special broadcast or group call services, e.g. emergency broadcast, CUG, VPN, PTT, PTT on Cellular [PoC], Press to Connect [P2C].

References

Informative references

Insert: The following one new row into the existing Informative references section.

Broadcast communication	H04H
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Insert: The following new Glossary of terms section.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

selective broadcast	means the selective delivery of information to a specified user or group of users by a connection which is normally asymmetric, i.e. which normally transmits from one source to a plurality of recipients
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Insert: The following new Synonyms and Keywords section.

Synonyms and Keywords

In patent documents the following abbreviations are often used:

CUG	Closed User group
VPN	Virtual Private Network

H04W4/10

Insert: The following new Definition statement.

Definition statement

This place covers:

Communication is established among members of a predefined group by an active user with a talk request over usually a half-duplex channel.

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References

Informative references

Insert: The following one new row into the existing Informative references table.

Trunked mobile radio systems	H04W84/08
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Insert: The following new Synonyms and Keywords section.

Synonyms and Keywords

In patent documents the following abbreviations are often used:

PoC	Push-on-Call; Push-on-Cellular
P2C	Push-to-Call; Press-to-Connect
PTT	Push-to-Talk

H04W4/24

Insert: The following new Definition statement.

Definition statement

This place covers:

Rating and charging of wireless network communications and services by either the telecommunications operators or service providers or third parties.

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Insert: The following new Informative references section.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Payment architectures, schemes or protocols using wireless devices	G06Q20/32
Commerce, e.g. shopping or e-commerce; Billing or invoicing	G06Q30/04
Data switching networks; Charging arrangements	H04L12/14
Arrangements for metering, time-control or time-indication	H04M15/00
Prepayment telephone systems	H04M17/00