

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1816

DATE: JANUARY 1, 2026

PROJECT MP12721

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

<b><u>Action</u></b>	<b><u>Subclass</u></b>	<b><u>Group(s)</u></b>
<b>SCHEME:</b>		
Titles Changed:	H04L	12/14
<b>DEFINITIONS:</b>		
Definitions New:	H04W	4/24
Definitions Modified:	H04L	12/14
	H04M	15/00
	H04M	17/00

**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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## 1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)**SUBCLASS H04L - TRANSMISSION OF DIGITAL INFORMATION, e.g. TELEGRAPHIC COMMUNICATION**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H04L 12/14	2	Charging, metering or billing arrangements specially adapted for data communications, e.g. authentication, authorisation and accounting [AAA] framework	

\*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T = existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

## NOTES:

- \*\*No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

## **2. A. DEFINITIONS (new)**

### **H04W 4/24**

#### **Relationships with other classification places**

When documents disclose aspects of charging or billing in combination with aspects of wired or wireless data or voice communication, e.g. voice over IP (VoIP, VoLTE), then multiple classification should be considered in groups H04L 12/14, H04M 15/00, H04M 17/00 or H04W 4/24.

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## 2. A. DEFINITIONS (modified)

### H04L 12/14

#### Relationships with other classification places

Replace: The Relationships section text with the revised text below.

When documents disclose aspects of charging or billing in combination with aspects of wired or wireless data or voice communication, e.g. voice over IP (VoIP, VoLTE), then multiple classification should be considered in groups H04L 12/14, H04M 15/00, H04M 17/00 or H04W 4/24.

#### References

#### Application-oriented references

Replace: The Application-oriented references table with the revised table below.

Arrangements for maintenance or administration with service quality level-based billing	H04L 41/5029
Metering arrangements in telephonic communication, such as billing and charging of telephone calls or the billing architecture of telephonic networks	H04M 15/00
Prepayment voice telephony systems	H04M 17/00
Accounting or billing for services or facilities specially adapted for wireless communication	H04W 4/24

### H04M 15/00

#### Definition statement

Replace: The Definition statement text with the revised text below.

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Charging or billing arrangements, e.g. generation of metering signals, tariffs, rating plans, charge calculations and bill generation details for voice wireline and wireless communications, including VoIP. Also, rating/charging for added value services or other services using prepaid calling cards, SIM cards or the mobile phone itself, insofar as these services are metered, rated and billed by the network operator.

### **Relationships with other classification places**

Replace: The Relationships table with the new text below.

When documents disclose aspects of charging or billing in combination with aspects of wired or wireless data or voice communication, e.g. voice over IP (VoIP, VoLTE), then multiple classification should be considered in groups H04L 12/14, H04M 15/00, H04M 17/00 or H04W 4/24.

### **References**

Delete: The entire Limiting references section.

### **Application-oriented references**

Replace: The Application-oriented references table with the revised table below.

Telephonic communication systems adapted for combination with other electrical systems	H04M 11/00
Prepayment of wireline communication systems, wireless communication systems or telephone systems	H04M 17/00
Charging, metering or billing arrangements specially adapted for data communications, e.g. authentication, authorisation and accounting [AAA] framework	H04L 12/14
Accounting or billing for services specially adapted for wireless communications	H04W 4/24

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**Informative references**

Replace: The Informative references table with the revised table below.

Substation equipment, e.g. for use by subscribers	H04M 1/00
Arrangements for supervision, monitoring or testing for metering arrangements or prepayment telephone systems	H04M 3/248
Systems providing special services or facilities to subscribers	H04M 3/42
Counting mechanisms; Counting of objects not otherwise provided for	G06M
Payment architectures, schemes or protocols	G06Q 20/00
Commerce	G06Q 30/00
Mechanisms actuated by objects other than coins to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus	G07F 7/00
Complete banking systems; Coded card-free arrangements adapted for dispensing or receiving monies or the like and posting such transactions to existing accounts	G07F 19/00
Pulse technique	H03K

**Glossary of terms**

Replace: “Call” with lowercase “call” so that the Glossary of terms table appears as follows.

call	any kind of communication
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**H04M 17/00****Definition statement**

Replace: The Definition statement text with the revised text below.

Prepaid aspects for wire-line and wireless communications, including VoIP. Also, any other prepaid related aspect like recharging functionality, usage and features of calling cards, SIM.

**Relationships with other classification places**

Replace: The Relationships table with the new text below.

When documents disclose aspects of charging or billing in combination with aspects of wired or wireless data or voice communication, e.g. voice over IP (VoIP, VoLTE), then multiple classification should be considered in groups H04L 12/14, H04M 15/00, H04M 17/00 or H04W 4/24.

**References****Limiting references**

Replace: The Limiting references table with the revised table below.

Using a coded card to authorise calls from a telephone set	<a href="#">H04M 1/675</a>
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**Application-oriented references:**

Replace: The Application-oriented references table with the revised table below.

Telephonic communication systems adapted for combination with other electrical systems	<a href="#">H04M 11/00</a>
Arrangements for metering, time-control or time indication; Metering, charging or billing arrangements for voice wireline or wireless communications	<a href="#">H04M 15/00</a>

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Charging, metering or billing arrangements specially adapted for data communications, e.g. authentication, authorisation and accounting [AAA] framework	<a href="#">H04L 12/14</a>
Accounting or billing for services specially adapted for wireless communications	<a href="#">H04W 4/24</a>

***Informative references***

Replace: The Informative references table with the revised table below.

Substation equipment, e.g. for use by subscribers	<a href="#">H04M 1/00</a>
Arrangements for supervision, monitoring or testing for metering arrangements or prepayment telephone systems	<a href="#">H04M 3/248</a>
Systems providing special services or facilities to subscribers	<a href="#">H04M 3/42</a>
Counting mechanisms; Counting of objects not otherwise provided for	<a href="#">G06M</a>
Payment architectures, schemes or protocols	<a href="#">G06Q 20/00</a>
Commerce	<a href="#">G06Q 30/00</a>
Mechanisms actuated by objects other than coins to free or to actuate vending, hiring, coin or paper currency dispensing or refunding apparatus	<a href="#">G07F 7/00</a>
Complete banking systems; Coded card-freed arrangements adapted for dispensing or receiving monies or the like and posting such transactions to existing accounts	<a href="#">G07F 19/00</a>
Pulse technique	<a href="#">H03K</a>

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## 5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
G06Q 50/50	H04L 12/14	<u>Replace</u> the existing text with the following new text:  charging, metering or billing arrangements specially adapted for data communications

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
G06Q 20/085	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
G06Q 20/127	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
G06Q 20/145	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
G06Q 20/305	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04L 41/00	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04L 41/5029	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04L 67/1396	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04L 67/53	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04L 67/535	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04L 67/56	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
H04L 69/14	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04L 69/18	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04N 1/00	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04N 21/00	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04N 21/2543	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04N 21/4185	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications
H04N 21/4784	H04L 12/14	Informative references	<u>Replace</u> the existing text with the following new text:  Charging, metering or billing arrangements specially adapted for data communications

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
H04W 4/00	H04L 12/14, H04M15/00, H04M17/00	Informative references	<p><u>Replace</u> the existing text and symbols with the following new text and symbols. (The single table row is being turned into three distinct table rows.):</p> <p>Charging, metering or billing arrangements specially adapted for data communications H04L 12/14</p> <p>Arrangements for metering, time-control or time indication and metering, charging or billing arrangements for voice wireline or wireless communications H04M 15/00</p> <p>Prepayment of wireline communication systems, wireless communication systems or telephone systems H04M 17/00</p>

## NOTES:

- The CRL tables above are used for changes to locations outside of the project scope. Changes to references in scheme titles or definitions inside the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” referenced D symbols should indicate an action of “delete” or should indicate a replacement symbol and referenced F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.