CPC   COOPERATIVE PATENT CLASSIFICATION

H   ELECTRICITY
(NOTE omitted)

H04   ELECTRIC COMMUNICATION TECHNIQUE
(NOTE omitted)

H04T   INDEXING SCHEME RELATING TO STANDARDS FOR ELECTRIC COMMUNICATION TECHNIQUE (CLASS H04)

NOTES

1. This scheme constitutes an non-associated internal scheme for indexing exclusively documents issued by standardisation bodies (herein called standards) for electric communication technique (H04).

   As standardisation bodies organize their documents in different ways, the present scheme is subdivided into main groups related to a particular CPC range to allow different indexing approaches.

2. Scheme index:

3.
```
Wireless communication standards    H04T 2001/00      –      H04T 2001/231
Standards related to data switching
networks in general         H04T 2012/00      –      H04T 2012/00
Internet standards           H04T 2029/00      –      H04T 2029/06
```

2001/00   **Standards for wireless communication networks**

NOTE

The indexing codes of this scheme are to be used mainly with classification in CPC subgroups H04W.

In order to keep the structure adopted by the standardisation bodies considered, a matrix type of scheme is used as indicated below:
- H04T 2001/101 - H04T 2001/113 codes are used for information relating to the physical aspects, e.g. radio resources, core network resources...
- H04T 2001/201 - H04T 2001/231 codes are used for information relating to functional aspects, e.g. physical layer, traffic/transport...

For complete indexing it is mandatory to allocate at least one and preferably only one combination of **H04T2001/100** and **H04T2001/200** codes to a document.

Searching in this scheme is done by combining the above indicated codes, i.e. **H04T2001/100** and **H04T2001/200**

2001/101   . Radio Resources

NOTE

This subgroup covers
- radio access network including the radio interface, the interfaces within the radio access network, and the interfaces to the core network(s).

2001/103   . Core Network Resources

NOTE

This subgroup covers
- core networks including the interfaces within the core network and the interfaces to external networks or service nodes.

2001/105   . Network/Interface/Protocol Extensions

NOTE

This subgroup covers
- extensions of network resources, interfaces or protocols related to calls/sessions of additional voice and data services, e.g. HSCSD, fax, bearer services, voice group call and voice broadcast services.

2001/107   . Overlay Network Resources

NOTE

This subgroup covers
- overlay networks, e.g. IP based Multimedia System (IMS), including interfaces within the overlay network, the related interfaces to the core and radio access network(s), and the interfaces to external networks.

2001/109   . Codecs

NOTE

This subgroup covers
- codecs and network and terminal devices or facilities for the coding, compression, and ciphering of voice, data, and multimedia user traffic.

2001/111   . Terminal

NOTE

This subgroup covers

H04T

H04T 2001/111
(continued)

- terminals operating as mobile termionation point of wireless network protocols and construction details thereof.

2001/113 . SIM, USIM

NOTE

This subgroup covers
- Subscriber Identification Modules as well as Smart Cards supporting network termination functions, e.g. for authentication, when attached to a terminal and construction details tehreof.

2001/201 . Physical layer functions

NOTE

This subgroup covers
- functional aspects relating to the physical transport of information, e.g. modulation, radio propagation, physical channel and frame structuring, synchronisation, as well as antenna characteristics, (e.g. beam steering) and antenna construction details.

2001/203 . Traffic; Transport

NOTE

This subgroup covers
- functional aspects relating to user data transport and control of associated resources on the Physical Layer, e.g. logical channel structuring, Medium Access Control (MAC), Radio Link Control (RLC), power control, multiplexing, switching, transport format conversion and rate adaptation, tunnelling, quality-of-service aspects.

2001/205 . Signalling; Control

NOTE

This subgroup covers
- functional aspects relating to the signalling/ control associated to basic call, data, and network services and related signalling trnasport, e.g. RAdio Resource Control (RRC), Base Station System Application Part (BSSAP), Radio Access Network Application Part (RANAP), handoff, call/session control for basic voice and data services, paging, numbering, routing.

2001/207 . Mobility

NOTE

This subgroup covers
- functional aspects relating to subscriber roaming, e.g. location registration and updating.

2001/209 . Applications

NOTE

This subgroup covers
- functional aspects relating to applications other than the basic network and call/session services.

2001/2091 . . Call related supplementary Services, e.g. Call Forwarding [CF], Cell Barring [CB]
2001/2093 . . Intelligent Services
2001/2095 . . Location -, Position -, or Presence Services
2001/2096 . . Messaging Services
2001/2098 . . Device and Node specific Features
2001/211 . Testing and Conformance

NOTE

This subgroup covers
- functional aspects relating to test and conformity of networks, network nodes or facilities, terminals, and subscriber modules.

2001/213 . Planning

NOTE

This subgroup covers
- functional aspects relating to network and network topology planning, e.g. radio network planning.

2001/215 . Billing; Accounting; Charging

NOTE

This subgroup covers
- functional aspects relating to billing, charging and accounting.

2001/217 . Configuration and Fault Management; Operation and Maintenance

NOTE

This subgroup covers
- functional aspects relating to configuration management, fault management, (e.g. alarm handling), operation and maintenance, performance evaluation, as well as subscriber data and user profile management.

2001/219 . Interworking

NOTE

This subgroup covers
- functional aspects relating to interworking supported by a network, network nodes or facilities, (e.g. Shared Interworking Function(SIWF)), terminals, and subscriber modules.

2001/221 . Security

NOTE

This subgroup covers
- functions and aspects relating to authentication, authorisation, cipher key exchange, and ciphering.

2001/231 . Architecture; Topology; Principles; Requirements

NOTE

This subgroup covers
- aspects relating to overall network architectures and topologies, general aspects and principles of seervice and architecture implementation, and requirements to service and architecture implementation.

H04T

2012/00	**Standards related to data switching networks in general**
2029/00	**Standards related to data transmission protocols not covered by any of the codes H04T 2001/00 - H04T 2012/00**
2029/06	. Internet Standards

> **NOTE**
>
> The indexing codes of this scheme are to be used mainly with classification in subgroups H04L 9/40 and H04L 69/02 – H04L 69/26. In this scheme H04T 2029/06 codes are mapped whenever possible or appropriate to the corresponding entries and have the same meaning.