

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1377

DATE: JANUARY 1, 2023

PROJECT RP11771

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Symbols Deleted:	H04W	72/005, 72/0406, 72/0413, 72/042, 72/0426, 72/0433, 72/048, 72/0486, 72/0493, 72/06, 72/08, 72/082, 72/085, 72/087, 72/10, 72/1205, 72/1226, 72/1231, 72/1236, 72/1242, 72/1247, 72/1252, 72/1257, 72/1278, 72/1284, 72/1289, 72/1294, 72/14
Symbols New:	H04W	72/0457, 72/11, 72/115, 72/20, 72/21, 72/23, 72/231, 72/232, 72/25, 72/27, 72/29, 72/30, 72/40, 72/50, 72/51, 72/512, 72/52, 72/53, 72/535, 72/54, 72/541, 72/542, 72/543, 72/56, 72/563, 72/566, 72/569
Titles Changed:	H04W	72/00, 72/044, 72/0446, 72/0453, 72/12, 72/121, 72/1263, 72/1268, 72/1273
Indents Changed:	H04W	72/121, 72/1215, 72/1221
Warnings New:	H04W	72/02, 72/04, 72/044, 72/0457, 72/11, 72/115, 72/12, 72/20, 72/23, 72/231, 72/232, 72/25, 72/27, 72/29, 72/40, 72/50, 72/51, 72/512, 72/54, 72/541, 72/56, 72/566
Notes Deleted:	H04W	72/00
<b>DEFINITIONS:</b>		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	H04W	72/005, 72/0406, 72/0413, 72/042, 72/0426, 72/0433, 72/048, 72/0486, 72/0493, 72/06, 72/08, 72/082, 72/085, 72/087, 72/10, 72/1205, 72/1226, 72/1231, 72/1236, 72/1242, 72/1247, 72/1252, 72/1257, 72/1278, 72/1284, 72/1289, 72/1294, 72/14
Definitions New:	H04W	72/20, 72/21, 72/23, 72/27, 72/29, 72/30, 72/51, 72/52, 72/53, 72/535, 72/54, 72/541, 72/542, 72/543, 72/56, 72/563, 72/566, 72/569
Definitions Modified:	H04W	16/14
	H04W	36/20
	H04W	72/00, 72/046, 72/1221

**The following subclasses/groups are also impacted by this Notice of Changes (indicate subclasses/groups outside of the project scope, such as those listed in the CRL):** H04K, H04J, H04L, H04W4/06, H04W8/22, H04W16/14, H04W24/10, H04W28/0215, H04W28/0231, H04W28/0278, H04W28/0804, H04W36/00, H04W36/0007, H04W36/0055, H04W48/12

**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)

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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 H04W - WIRELESS COMMUNICATION NETWORKS** (broadcast communication H04H; communication systems using wireless links for non-selective communication, e.g. wireless extensions H04M 1/72)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	H04W 72/00	0	Local resource management	
D	H04W 72/005	1	{Resource management for broadcast services}	<administrative transfer to H04W 72/30>
C	H04W 72/02	1	Selection of wireless resources by user or terminal	H04W 72/02, H04W 72/40
C	H04W 72/04	1	Wireless resource allocation	H04W 72/04, H04W 72/11, H04W 72/115, H04W 72/40
D	H04W 72/0406	2	{involving control information exchange between nodes}	<administrative transfer to H04W 72/20>
D	H04W 72/0413	3	{in uplink direction of a wireless link, i.e. towards network}	<administrative transfer to H04W 72/21>
D	H04W 72/042	3	{in downlink direction of a wireless link, i.e. towards terminal}	<administrative transfer to H04W 72/23>
D	H04W 72/0426	3	{between access points}	<administrative transfer to H04W 72/27>
D	H04W 72/0433	3	{between access point and access point controlling device}	<administrative transfer to H04W 72/29>
C	H04W 72/044	2	based on the type of the allocated resource	H04W 72/044, H04W 72/0457
M	H04W 72/0446	3	Resources in time domain, e.g. slots or frames	
M	H04W 72/0453	3	Resources in frequency domain, e.g. a carrier in FDMA	
N	H04W 72/0457	3	Variable allocation of band or rate	
U	H04W 72/046	3	{the resource being in the space domain, e.g. beams}	
U	H04W 72/0466	3	{the resource being a scrambling code}	
U	H04W 72/0473	3	{the resource being transmission power}	

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title</b> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
D	H04W 72/048	2	{where an allocation plan is defined based on terminal or device properties}	<administrative transfer to H04W 72/51>
D	H04W 72/0486	2	{where an allocation plan is defined based on load}	<administrative transfer to H04W 72/52>
D	H04W 72/0493	2	{where an allocation plan is defined based on a resource usage policy}	<administrative transfer to H04W 72/53>
D	H04W 72/06	2	{where an allocation plan is defined} based on a ranking criteria of the wireless resources	<administrative transfer to H04W 72/563>
D	H04W 72/08	2	{where an allocation plan is defined} based on quality criteria	<administrative transfer to H04W 72/54>
D	H04W 72/082	3	{using the level of interference}	<administrative transfer to H04W 72/541>
D	H04W 72/085	3	{using measured or perceived quality}	<administrative transfer to H04W 72/542>
D	H04W 72/087	3	{using requested quality}	<administrative transfer to H04W 72/543>
D	H04W 72/10	2	{where an allocation plan is defined} based on priority criteria	<administrative transfer to H04W 72/56>
N	H04W 72/11	2	Semi-persistent scheduling	
N	H04W 72/115	2	Grant-free or autonomous transmission	
C	H04W 72/12	1	Wireless traffic scheduling	H04W 72/12, H04W 72/40, H04W 72/50, H04W 72/51, H04W 72/512
D	H04W 72/1205	2	{Schedule definition, set-up or creation}	<administrative transfer to H04W 72/12>
M	H04W 72/121	2	for groups of terminals or users	
M	H04W 72/1215	2	{for collaboration of different radio technologies}	
M	H04W 72/1221	2	{based on age of data to be sent}	
D	H04W 72/1226	3	{based on channel quality criteria, e.g. channel state dependent scheduling}	<administrative transfer to H04W 72/54>

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title</b> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
D	H04W 72/1231	4	{using measured or perceived quality}	<administrative transfer to H04W 72/542>
D	H04W 72/1236	4	{using requested quality}	<administrative transfer to H04W 72/543>
D	H04W 72/1242	3	{based on precedence or priority of the traffic information}	<administrative transfer to H04W 72/569>
D	H04W 72/1247	3	{based on priority of the information source or recipient}	<administrative transfer to H04W 72/566>
D	H04W 72/1252	3	{based on load}	<administrative transfer to H04W 72/52>
D	H04W 72/1257	3	{based on resource usage policy}	<administrative transfer to H04W 72/535>
M	H04W 72/1263	2	Mapping of traffic onto schedule, e.g. scheduled allocation or multiplexing of flows	
M	H04W 72/1268	3	of uplink data flows	
M	H04W 72/1273	3	of downlink data flows	
D	H04W 72/1278	2	{Transmission of control information for scheduling}	<administrative transfer to H04W 72/20>
D	H04W 72/1284	3	{in the uplink, i.e. from terminal to network}	<administrative transfer to H04W 72/21>
D	H04W 72/1289	3	{in the downlink, i.e. towards the terminal}	<administrative transfer to H04W 72/23>
D	H04W 72/1294	4	{using a grant or specific channel (H04W 72/14 takes precedence)}	<administrative transfer to H04W 72/23>
D	H04W 72/14	2	using a grant {or specific} channel	<administrative transfer to H04W 72/23>
Q	H04W 72/20	1	Control channels or signalling for resource management	H04W 72/20, H04W 72/25, H04W 72/27, H04W 72/29
N	H04W 72/21	2	in the uplink direction of a wireless link, i.e. towards the network	

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title</b> <b>“CPC only” text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
Q	H04W 72/23	2	in the downlink direction of a wireless link, i.e. towards a terminal	H04W 72/23 H04W 72/231 H04W 72/232
N	H04W 72/231	3	the control data signalling from the layers above the physical layer, e.g. RRC or MAC-CE signalling	
N	H04W 72/232	3	the control data signalling from the physical layer, e.g. DCI signalling	
N	H04W 72/25	2	between terminals via a wireless link, e.g. sidelink	
N	H04W 72/27	2	between access points	
N	H04W 72/29	2	between an access point and the access point controlling device	
N	H04W 72/30	1	Resource management for broadcast services	
N	H04W 72/40	1	Resource management for direct mode communication, e.g. D2D or sidelink	
N	H04W 72/50	1	Allocation or scheduling criteria for wireless resources	
Q	H04W 72/51	2	based on terminal or device properties	H04W 72/51, H04W 72/512
N	H04W 72/512	3	for low-latency requirements, e.g. URLLC	
N	H04W 72/52	2	based on load	
N	H04W 72/53	2	based on regulatory allocation policies	
N	H04W 72/535	2	{based on resource usage policies}	
Q	H04W 72/54	2	based on quality criteria	H04W 72/54, H04W 72/541
N	H04W 72/541	3	using the level of interference	
N	H04W 72/542	3	using measured or perceived quality	
N	H04W 72/543	3	based on requested quality, e.g. QoS	
Q	H04W 72/56	2	based on priority criteria	H04W 72/56, H04W 72/566
N	H04W 72/563	3	of the wireless resources	
N	H04W 72/566	3	of the information or information source or recipient	
N	H04W 72/569	4	{of the traffic information}	

\*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

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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.

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B. New, Modified or Deleted Warning(s)

**SUBCLASS H04W - WIRELESS COMMUNICATION NETWORKS** (broadcast communication H04H; communication systems using wireless links for non-selective communication, e.g. wireless extensions H04M 1/72)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H04W 72/02		Group H04W 72/02 is impacted by reclassification into group H04W 72/40. Groups H04W 72/02 and H04W 72/40 should be considered in order to perform a complete search.
N	H04W 72/04		Group H04W 72/04 is impacted by reclassification into groups H04W 72/11, H04W 72/115 and H04W 72/40. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04W 72/044		Group H04W 72/044 is impacted by reclassification into group H04W 72/0457. Groups H04W 72/044 and H04W 72/0457 should be considered in order to perform a complete search.
N	H04W 72/0457		Group H04W 72/0457 is incomplete pending reclassification of documents from group H04W 72/044. Groups H04W 72/044 and H04W 72/0457 should be considered in order to perform a complete search.
N	H04W 72/11		Group H04W 72/11 is incomplete pending reclassification of documents from group H04W 72/04. Groups H04W 72/04 and H04W 72/11 should be considered in order to perform a complete search.
N	H04W 72/115		Group H04W 72/115 is incomplete pending reclassification of documents from group H04W 72/04. Groups H04W 72/04 and H04W 72/115 should be considered in order to perform a complete search.
N	H04W 72/12		Group H04W 72/12 is impacted by reclassification into groups H04W 72/40, H04W 72/50, H04W 72/51 and H04W 72/512. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04W 72/20		Group H04W 72/20 is impacted by reclassification into groups H04W 72/25, H04W 72/27 and H04W 72/29. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04W 72/23		Group H04W 72/23 is impacted by reclassification into groups H04W 72/231 and H04W 72/232. Groups H04W 72/23, H04W 72/231 and H04W 72/232 should be considered in order to perform a complete search.
N	H04W 72/231		Group H04W 72/231 is incomplete pending reclassification of documents from group H04W 72/23. Groups H04W 72/23 and H04W 72/231 should be considered in order to perform a complete search.
N	H04W 72/232		Group H04W 72/232 is incomplete pending reclassification of documents from group H04W 72/23. Groups H04W 72/23 and H04W 72/232 should be considered in order to perform a complete search.
N	H04W 72/25		Group H04W 72/25 is incomplete pending reclassification of documents from group H04W 72/20. Groups H04W 72/20 and H04W 72/25 should be considered in order to perform a complete search.



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<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	H04W 72/27		Group H04W 72/27 is incomplete pending reclassification of documents from group H04W 72/20. Groups H04W 72/20 and H04W 72/27 should be considered in order to perform a complete search.
N	H04W 72/29		Group H04W 72/29 is incomplete pending reclassification of documents from group H04W 72/20. Groups H04W 72/20 and H04W 72/29 should be considered in order to perform a complete search.
N	H04W 72/40		Group H04W 72/40 is incomplete pending reclassification of documents from groups H04W 72/02, H04W 72/04 and H04W 72/12. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04W 72/50		Group H04W 72/50 is incomplete pending reclassification of documents from group H04W 72/12. Groups H04W 72/12 and H04W 72/50 should be considered in order to perform a complete search.
N	H04W 72/51		Group H04W 72/51 is incomplete pending reclassification of documents from group H04W 72/12. Group H04W 72/51 is also impacted by reclassification into group H04W 72/512. Groups H04W 72/12, H04W 72/51 and H04W 72/512 should be considered in order to perform a complete search.
N	H04W 72/512		Group H04W 72/512 is incomplete pending reclassification of documents from groups H04W 72/12 and H04W 72/51. Groups H04W 72/12, H04W 72/51 and H04W 72/512 should be considered in order to perform a complete search.
N	H04W 72/54		Group H04W 72/54 is impacted by reclassification into group H04W 72/541. Groups H04W 72/54 and H04W 72/541 should be considered in order to perform a complete search.
N	H04W 72/541		Group H04W 72/541 is incomplete pending reclassification of documents from group H04W 72/54. Groups H04W 72/54 and H04W 72/541 should be considered in order to perform a complete search.
N	H04W 72/56		Group H04W 72/56 is impacted by reclassification into group H04W 72/566. Groups H04W 72/56 and H04W 72/566 should be considered in order to perform a complete search.
N	H04W 72/566		Group H04W 72/566 is incomplete pending reclassification of documents from group H04W 72/56. Groups H04W 72/56 and H04W 72/566 should be considered in order to perform a complete search.

\*N = new warning, M = modified warning, D = deleted warning

NOTE: The “Location” column only requires the symbol PRIOR to the location of the warning. No further directions such as “before” or “after” are required.

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D. New, Modified or Deleted Note(s)

**SUBCLASS H04W - WIRELESS COMMUNICATION NETWORKS** (broadcast communication H04H; communication systems using wireless links for non-selective communication, e.g. wireless extensions H04M 1/72)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
D	H04W 72/00	In this group, local priority rules supersede the first-place priority rule (FPPR) applying throughout H04W	<u>Delete</u> : The entire Note.

\*N = new note, M = modified note, D = deleted note

NOTE: The "Location" column only requires the symbol PRIOR to the location of the note. No further directions such as "before" or "after" are required.

## 2. A. DEFINITIONS (new)

Insert: The following new Definitions.

### H04W 72/20

#### Definition statement

*This place covers:*

Allocation-related communication among nodes, e.g. mobile stations, access points, leading to a transfer of control information, e.g. a request for or an assignment of resources as well as descriptive information needed therefore. Control information exchanged via multiple interfaces or directions of similar importance. Resource allocation for control channels.

#### References

##### Informative references

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

Transfer of user or subscriber data	<a href="#">H04W 8/20</a>
Transmission and use of information for re-establishing the radio link of resource information of target access point	<a href="#">H04W 36/0072</a>

#### Special rules of classification

Resource allocation for control channels should be classified in [H04W 72/20](#) and with an additional symbol for the specific resource allocation aspect.

### H04W 72/21

#### Definition statement

*This place covers:*

Allocation-related communication from a mobile station to an access point, from a mobile station to a relay node, or from a relay node to an access point. The allocation-related communication comprises e.g. requesting an allocation, or other allocation related issues.

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## **H04W 72/23**

### **Definition statement**

*This place covers:*

Allocation-related communication from an access point to a mobile station, from an access point to a relay node, or from a relay node to a mobile station. The allocation-related communication comprises e.g. transmission of the allocation plan, or other allocation related issues.

## **H04W 72/27**

### **Definition statement**

*This place covers:*

Allocation-related communication between access points, e.g. notifying the next access point about the resources allocated at the present access point.

## **H04W 72/29**

### **Definition statement**

*This place covers:*

Allocation related communication between an access point and a device controlling the access point, e.g. parameter settings to be applied by the access point. The access point can be a distributed unit and the access point controlling device can be a central unit in a distributed base station or cloud RAN.

### **References**

#### **Informative references**

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

Central resource management; Negotiating of resources
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<a href="#">H04W 28/16</a>
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## H04W 72/30

### Definition statement

*This place covers:*

Allocation of specific resources for broadcast/multicast purposes; reselection of preferred frequency layers (reselecting a different broadcast carrier when service is interrupted on the one in use).

### References

#### Informative references

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

Central resource management	<a href="#">H04W 28/16</a>
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## H04W 72/51

### Definition statement

*This place covers:*

Allocation of resources on the basis of properties related to the terminal/device to which resources are to be allocated, e.g. location, mobility status, operating applications.

Properties either are known by or reported to the instance making the allocation decision.

### References

#### Informative references

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

Processing or transfer of terminal data, e.g. status or physical capabilities	<a href="#">H04W 8/22</a>
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## **H04W 72/52**

### **Definition statement**

*This place covers:*

Allocation of resources based on the load of the stations involved or level of usage of resources.

## **H04W 72/53**

### **Definition statement**

*This place covers:*

Allocation of resources making use of explicit instructions/regulations, whose application directly leads to a specified and well-defined allocation plan.

## **H04W 72/535**

### **Definition statement**

*This place covers:*

Schedule definition based on a usage policy related to a resource or entity involved in transmission of the traffic data, e.g. fairness of transmission opportunity, opportunistic scheduling, synchronised switch between uplink and downlink transmission.

## **H04W 72/54**

### **Definition statement**

*This place covers:*

Allocation of resources on the basis of quality of communication provided by the links or stations involved.

### **References**

#### **Informative references**

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

Definition of hand-off measurement parameters; Arrangements and techniques for reducing the perturbation due to measuring activities performed for neighbour cell list measurements, e.g. compressed mode	<a href="#">H04W 36/0094</a>
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## **H04W 72/541**

### **Definition statement**

*This place covers:*

Allocation of resources on the basis of interference on the air interface or faced by the stations involved, e.g. co-channel interference; Arrangements and techniques for measuring or sensing the primary network in a cognitive radio, e.g. "quiet period".

### **References**

#### **Informative references**

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

Spectrum sharing arrangements between different networks	<a href="#">H04W 16/14</a>
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### **Special rules of classification**

Defining or using a "quiet period" for sensing for the primary network in cognitive radio should be classified in [H04W 72/54](#) with an additional symbol in [H04W 16/14](#).

## **H04W 72/542**

### **Definition statement**

*This place covers:*

Allocation of resources on the basis of the measured quality of communication provided by the air interface or stations involved, e.g. C/I or BER.

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#### **H04W 72/543**

##### **Definition statement**

*This place covers:*

Allocation of resources on the basis of the requested quality of communication provided by the air interface or stations involved.

#### **H04W 72/56**

##### **Definition statement**

*This place covers:*

Allocation of resources on the basis of priority of the traffic communicated, or the priority of the stations involved.

#### **H04W 72/563**

##### **Definition statement**

*This place covers:*

Allocation of resources on the basis of ranking criteria of the wireless resources, e.g. preferred channel list. Usually, a ranking criterion exists before a decision on allocation is made.

#### **H04W 72/566**

##### **Definition statement**

*This place covers:*

Schedule definition is based on the precedence or priority of the information to be transmitted or the precedence or priority of the information source or recipient.



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**H04W 72/569**

**Definition statement**

*This place covers:*

Schedule definition is based on a precedence or priority of the traffic information to be transmitted.

## 2. A. DEFINITIONS (modified)

### H04W 16/14

#### Definition statement

Replace: The third paragraph of text with the following revised text:

Covers overlap sharing, i.e. filling voids or gaps in used or allocated resources. Covers also underlay sharing, i.e. using the resources of an overlaid system in an underlying system while staying within an agreed noise floor. Covers the detection and cooperative use of licensed spectrum resources or their detection for interference free operation of unlicensed networks.

#### References

##### Informative references

Insert: The following new row into the Informative references table:

Allocation of wireless resources based on quality criteria	<a href="#">H04W72/54</a>
--	---------------------------

### H04W 36/20

#### References

##### Informative references

Replace: The symbol in the Informative references table row so that the row reads as follows:

Allocation of wireless resources based on quality criteria	<a href="#">H04W 72/54</a>
--	----------------------------

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## H04W 72/00

### Definition statement

Delete: The phrase “(grant or denial)” from the third paragraph of text and also delete the entire fifth paragraph of text so that the Definition statement reads as follows:

Processing originating user or terminal resource requests for the purpose of allocating one or a plurality of local wireless resources to the user or terminal.

Allocating one or a plurality of local wireless resources in response to a terminating user or terminal communication request.

Controlling wireless resource requests and wireless resource allocation among contending users or terminals.

Selection of wireless resources by user or terminal.

### References

#### Informative references

Insert: The following new row into the Informative references table:

Network traffic or resource management	H04W 28/00
--	------------

Delete: The entire Special rules of classification section.

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:*

Relaying terminal	means terminal equipment (as such covered by H04W 88/02) considered as local access point for the requester.
-------------------	--

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RRC	Radio resource control
MAC-CE	MAC control element
D2D	Device to device
URLLC	“Ultra-Reliable Low-Latency Communication [URLLC]” means a set of features that provide low latency and ultra-high reliability for mission critical applications such as industrial internet, smart grids, remote surgery and intelligent transportation systems.

**H04W 72/046**

**References**

**Informative references**

Insert: The following two new rows into the Informative references table:

Multi-antenna systems using beam selection at the transmitting station	<a href="#">H04B 7/0695</a>
Multi-antenna systems using beam selection at the receiving station	<a href="#">H04B 7/088</a>

**H04W 72/1221**

**References**

**Informative references**

Replace: The existing symbol in the second table row with the new symbol H04W 72/52 so that the table appears as follows:

Flow control in the network using intermediate storage	<a href="#">H04W 28/14</a>
Schedule definition, set-up or creation based on load	<a href="#">H04W 72/52</a>

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2. B. DEFINITIONS QUICK FIX

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
H04W 72/005	Definition		Delete entire definition
H04W 72/0406	Definition		Delete entire definition
H04W 72/0413	Definition		Delete entire definition
H04W 72/042	Definition		Delete entire definition
H04W 72/0426	Definition		Delete entire definition
H04W 72/0433	Definition		Delete entire definition
H04W 72/048	Definition		Delete entire definition
H04W 72/0486	Definition		Delete entire definition
H04W 72/0493	Definition		Delete entire definition
H04W 72/06	Definition		Delete entire definition
H04W72/08	Definition		Delete entire definition
H04W72/082	Definition		Delete entire definition
H04W72/085	Definition		Delete entire definition
H04W72/087	Definition		Delete entire definition
H04W 72/10	Definition		Delete entire definition
H04W 72/1205	Definition		Delete entire definition
H04W 72/1226	Definition		Delete entire definition
H04W 72/1231	Definition		Delete entire definition
H04W 72/1236	Definition		Delete entire definition
H04W 72/1242	Definition		Delete entire definition
H04W 72/1247	Definition		Delete entire definition
H04W 72/1252	Definition		Delete entire definition
H04W 72/1257	Definition		Delete entire definition
H04W 72/1278	Definition		Delete entire definition
H04W 72/1284	Definition		Delete entire definition
H04W 72/1289	Definition		Delete entire definition
H04W 72/1294	Definition		Delete entire definition
H04W 72/14	Definition		Delete entire definition

**Notes:**

Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

*Reminder: Never delete F symbol definitions.*

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3. REVISION CONCORDANCE LIST (RCL)

<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
D	H04W 72/005	<administrative transfer to H04W 72/30>
C	H04W 72/02	H04W 72/02, H04W 72/40
C	H04W 72/04	H04W 72/04, H04W 72/11, H04W 72/115, H04W 72/40
D	H04W 72/0406	<administrative transfer to H04W 72/20>
D	H04W 72/0413	<administrative transfer to H04W 72/21>
D	H04W 72/042	<administrative transfer to H04W 72/23>
D	H04W 72/0426	<administrative transfer to H04W 72/27>
D	H04W 72/0433	<administrative transfer to H04W 72/29>
C	H04W 72/044	H04W 72/044, H04W 72/0457
D	H04W 72/048	<administrative transfer to H04W 72/51>
D	H04W 72/0486	<administrative transfer to H04W 72/52>
D	H04W 72/0493	<administrative transfer to H04W 72/53>
D	H04W 72/06	<administrative transfer to H04W 72/563>
D	H04W 72/08	<administrative transfer to H04W 72/54>
D	H04W 72/082	<administrative transfer to H04W 72/541>
D	H04W 72/085	<administrative transfer to H04W 72/542>
D	H04W 72/087	<administrative transfer to H04W 72/543>
D	H04W 72/10	<administrative transfer to H04W 72/56>
C	H04W 72/12	H04W 72/12, H04W 72/40, H04W 72/50, H04W 72/51, H04W 72/512
D	H04W 72/1205	<administrative transfer to H04W 72/12>
D	H04W 72/1226	<administrative transfer to H04W 72/54>
D	H04W 72/1231	<administrative transfer to H04W 72/542>
D	H04W 72/1236	<administrative transfer to H04W 72/543>
D	H04W 72/1242	<administrative transfer to H04W 72/569>
D	H04W 72/1247	<administrative transfer to H04W 72/566>
D	H04W 72/1252	<administrative transfer to H04W 72/52>
D	H04W 72/1257	<administrative transfer to H04W 72/535>
D	H04W 72/1278	<administrative transfer to H04W 72/20>
D	H04W 72/1284	<administrative transfer to H04W 72/21>
D	H04W 72/1289	<administrative transfer to H04W 72/23>
D	H04W 72/1294	<administrative transfer to H04W 72/23>
D	H04W 72/14	<administrative transfer to H04W 72/23>
Q	H04W 72/20	H04W 72/20, H04W 72/25, H04W 72/27, H04W 72/29
Q	H04W 72/23	H04W 72/23, H04W 72/231, H04W 72/232
Q	H04W 72/51	H04W 72/51, H04W 72/512
Q	H04W 72/54	H04W 72/54, H04W 72/541
Q	H04W 72/56	H04W 72/56, H04W 72/566

\* 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; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.

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- 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 (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04W 72/005		DELETE
H04W 72/0406		DELETE
H04W 72/0413		DELETE
H04W 72/042		DELETE
H04W 72/0426		DELETE
H04W 72/0433		DELETE
H04W 72/044	H04W 72/044	UPDATE
H04W 72/0446	H04W 72/0446	UPDATE
H04W 72/0453	H04W 72/0453	UPDATE
H04W 72/0457	H04W 72/0457	NEW
H04W 72/046	H04W 72/044	UPDATE
H04W 72/0466	H04W 72/044	UPDATE
H04W 72/0473	H04W 72/044	UPDATE
H04W 72/048		DELETE
H04W 72/0486		DELETE
H04W 72/0493		DELETE
H04W 72/06		DELETE
H04W 72/08		DELETE
H04W 72/082		DELETE
H04W 72/085		DELETE
H04W 72/087		DELETE
H04W 72/10		DELETE
H04W 72/11	H04W 72/11	NEW
H04W 72/115	H04W 72/115	NEW
H04W 72/1205		DELETE
H04W 72/121	H04W 72/121	UPDATE
H04W 72/1226		DELETE
H04W 72/1231		DELETE
H04W 72/1236		DELETE
H04W 72/1242		DELETE
H04W 72/1247		DELETE
H04W 72/1252		DELETE
H04W 72/1257		DELETE
H04W 72/1263	H04W 72/1263	UPDATE
H04W 72/1268	H04W 72/1268	UPDATE
H04W 72/1273	H04W 72/1273	UPDATE
H04W 72/1278		DELETE
H04W 72/1284		DELETE
H04W 72/1289		DELETE
H04W 72/1294		DELETE
H04W 72/14		DELETE



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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04W 72/20	H04W 72/20	NEW
H04W 72/21	H04W 72/21	NEW
H04W 72/23	H04W 72/23	NEW
H04W 72/231	H04W 72/231	NEW
H04W 72/232	H04W 72/232	NEW
H04W 72/25	H04W 72/25	NEW
H04W 72/27	H04W 72/27	NEW
H04W 72/29	H04W 72/29	NEW
H04W 72/30	H04W 72/30	NEW
H04W 72/40	H04W 72/40	NEW
H04W 72/50	H04W 72/50	NEW
H04W 72/51	H04W 72/51	NEW
H04W 72/512	H04W 72/512	NEW
H04W 72/52	H04W 72/52	NEW
H04W 72/53	H04W 72/53	NEW
H04W 72/535	H04W 72/50	NEW
H04W 72/54	H04W 72/54	NEW
H04W 72/541	H04W 72/541	NEW
H04W 72/542	H04W 72/542	NEW
H04W 72/543	H04W 72/543	NEW
H04W 72/56	H04W 72/56	NEW
H04W 72/563	H04W 72/563	NEW
H04W 72/566	H04W 72/566	NEW
H04W 72/569	H04W 72/566	NEW

\*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.

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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>
H04J11/0023	H04W72/1226	H04W 72/54
H04J11/0023	H04W72/082	H04W 72/541
H04L5/0069	H04W72/048	H04W 72/51
H04W28/0215	H04W72/048	H04W 72/51
H04W28/0231	H04W72/1226	H04W 72/54
H04W28/0278	H04W72/1205	H04W 72/12
H04W28/0804	H04W72/0486	H04W 72/52
H04W36/0007	H04W72/005	H04W 72/30

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>
H04K3/00	H04W72/082	Informative references	H04W 72/541
H04L47/806	H04W72/005	Informative references	H04W 72/30
H04W4/06	H04W72/005	Informative references	H04W 72/30
H04W8/22	H04W72/048	Informative references	H04W 72/51
H04W24/10	H04W72/08	Informative references	H04W 72/54
H04W36/00	H04W72/005	Informative references	H04W 72/30
H04W36/0007	H04W72/005	Limiting references	H04W 72/30
H04W36/0055	H04W72/0406	Informative references	H04W 72/20
H04W48/12	H04W72/14	Informative references	H04W 72/23

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.