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CPC NOTICE OF CHANGES 860

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PROJECT RP0532

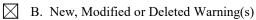**The following classification changes will be effected by this Notice of Changes**:

Action	Subclass	Group(s)
SCHEME:		
Symbols New:	H04W	28/0804, 28/0808, 28/0812, 28/0815, 28/0819, 28/0823, 28/0827, 28/0831, 28/0835, 28/0838, 28/0842, 28/0846, 28/0858, 28/0867, 28/0875, 28/0883, 28/0892, 28/09, 28/0908, 28/0917, 28/0925, 28/0933, 28/0942, 28/095, 28/0958, 28/0967, 28/0975, 28/0983, 28/0992
Warnings New:	H04W	28/08, 28/0804, 28/0827, 28/0842, 28/0846, 28/0858, 28/0867, 28/0875, 28/0883, 28/09, 28/0908, 28/0917, 28/0925, 28/0958, 28/0992

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)

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 H04M1/72)

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
U	H04W 28/00	0	Network traffic or resource management	
U	H04W 28/02	1	Traffic management, e.g. flow control or congestion control	
C	H04W 28/08	2	Load balancing or load distribution	H04W28/08, H04W28/0804, H04W28/0808, H04W28/0812, H04W28/0815, H04W28/0819, H04W28/0823, H04W28/0827, H04W28/0831, H04W28/0835, H04W28/0838, H04W28/0842, H04W28/0846, H04W28/0858, H04W28/0867, H04W28/0875, H04W28/0883, H04W28/0892, H04W28/09, H04W28/0908, H04W28/0917, H04W28/0925, H04W28/0933, H04W28/0942, H04W28/095, H04W28/0958, H04W28/0967, H04W28/0975, H04W28/0983, H04W28/0992
N	H04W 28/0804	3	{between access entities (reselecting a network for handling traffic H04W36/22; wireless resource allocation where an allocation plan is defined based on load H04W 72/0486)}	

Type*	Symbol	Indent Level Number of dots (e.g. 0, 1, 2)	Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**	Transferred to#
N	H04W 28/0808	4	{between base stations}	
N	H04W 28/0812	5	{of same hierarchy level}	
N	H04W 28/0815	5	{of different hierarchy levels, e.g. Master Evolved Node B [MeNB] or Secondary Evolved node B [SeNB]}	
N	H04W 28/0819	5	{of different Radio Access Technologies [RATs], e.g. LTE or WiFi}	
N	H04W 28/0823	4	{between wireless and wire-based access points, e.g. via LTE and via DSL connected access points}	
N	H04W 28/0827	3	{Triggering entity}	
N	H04W 28/0831	4	{Core entity}	
N	H04W 28/0835	4	{Access entity, e.g. eNB}	
N	H04W 28/0838	4	{User device}	
N	H04W 28/0842	3	{among core entities}	
N	H04W 28/0846	3	{between network providers, e.g. operators (selecting a network or a communication service H04W40/18)}	
U	H04W 28/085	3	{among bearers or channels}	
N	H04W 28/0858	3	{among entities in the uplink}	
N	H04W 28/0867	3	{among entities in the downlink}	
N	H04W 28/0875	3	{to or through Device to Device [D2D] links, e.g. direct-mode links}	
N	H04W 28/0883	3	{between entities in ad-hoc networks}	
N	H04W 28/0892	4	{between different intermediate nodes}	
N	H04W 28/09	3	{Management thereof}	
N	H04W 28/0908	4	{based on time, e.g. for a critical period only}	
N	H04W 28/0917	4	{based on the energy state of entities}	
N	H04W 28/0925	4	{using policies}	
N	H04W 28/0933	5	{based on load-splitting ratios}	
N	H04W 28/0942	5	{based on measured or predicted load of entities- or links}	
N	H04W 28/095	5	{based on usage history, e.g. usage history of devices}	
N	H04W 28/0958	4	{based on metrics or performance parameters}	
N	H04W 28/0967	5	{Quality of Service [QoS] parameters}	
N	H04W 28/0975	6	{for reducing delays}	
N	H04W 28/0983	6	{for optimizing bandwidth or throughput}	
N	H04W 28/0992	4	{based on the type of application}	

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 <u>subclasses</u>, 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} <u>are</u> 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 <u>must</u> 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.

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 H04M1/72)

Type*	Location	Old Warning	New/Modified Warning
N	H04W 28/08		Group H04W 28/08 is impacted by re-classification into groups H04W28/0804-H04W28/0846 and groups H04W28/0858 - H04W28/0992. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04W 28/0804		Groups H04W 28/0804-H04W 28/0823 are incomplete pending re-classification of documents from group H04W 28/08. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04W 28/0827		Groups H04W 28/0827-H04W28/0838 are incomplete pending re-classification of documents from group H04W 28/08. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04W 28/0842		Group H04W 28/0842 is incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/0842 should be considered in order to perform a complete search.
N	H04W 28/0846		Group H04W 28/0846 is incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/0846 should be considered in order to perform a complete search.
N	H04W 28/0858		Group H04W 28/0858 is incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/0858 should be considered in order to perform a complete search.
N	H04W 28/0867		Group H04W 28/0867 is incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/0867

Type*	Location	Old Warning	New/Modified Warning
			should be considered in order to perform a complete search.
N	H04W 28/0875		Group H04W 28/0875 is incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/0875 should be considered in order to perform a complete search.
N	H04W 28/0883		Groups H04W 28/0883 and H04W28/0892 are incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08, H04W 28/0883 and H04W 28/0892 should be considered in order to perform a complete search
N	H04W 28/09		Group H04W 28/09 is incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/09 should be considered in order to perform a complete search.
N	H04W 28/0908		Group H04W 28/0908 is incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/0908 should be considered in order to perform a complete search.
N	H04W 28/0917		Group H04W 28/0917 is incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/0917 should be considered in order to perform a complete search.
N	H04W 28/0925		Groups H04W 28/0925-H04W 28/095 are incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/0925 should be considered in order to perform a complete search.
N	H04W 28/0958		Groups H04W 28/0958–H04W 28/0983 are incomplete pending re-classification of documents from group H04W 28/08. All groups listed in this Warning should be considered in order to perform a complete search.
N	H04W 28/0992		Group H04W 28/0992 is incomplete pending re-classification of documents from group H04W 28/08. Groups H04W 28/08 and H04W 28/0992

Type*	Location	Old Warning	New/Modified Warning
			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.

3.   REVISION CONCORDANCE LIST (RCL)

Type*	From CPC Symbol (existing)	To CPC Symbol(s)
C	H04W 28/08	H04W 28/08, H04W 28/0804, H04W 28/0808, H04W 28/0812, H04W 28/0815, H04W 28/0819, H04W 28/0823, H04W 28/0827, H04W 28/0831, H04W 28/0835, H04W 28/0838, H04W 28/0842, H04W 28/0846, H04W 28/0858, H04W 28/0867, H04W 28/0875, H04W 28/0883, H04W 28/0892, H04W 28/09, H04W 28/0908, H04W 28/0917, H04W 28/0925, H04W 28/0933, H04W 28/0942, H04W 28/095, H04W 28/0958, H04W 28/0967, H04W 28/0975, H04W 28/0983, H04W 28/0992

* 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.
- 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.

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

CPC	**IPC**	**Action***
H04W 28/0804	H04W 28/08	NEW
H04W 28/0808	H04W 28/08	NEW
H04W 28/0812	H04W 28/08	NEW
H04W 28/0815	H04W 28/08	NEW
H04W 28/0819	H04W 28/08	NEW
H04W 28/0823	H04W 28/08	NEW
H04W 28/0827	H04W 28/08	NEW
H04W 28/0831	H04W 28/08	NEW
H04W 28/0835	H04W 28/08	NEW
H04W 28/0838	H04W 28/08	NEW
H04W 28/0842	H04W 28/08	NEW
H04W 28/0846	H04W 28/08	NEW
H04W 28/0858	H04W 28/08	NEW
H04W 28/0867	H04W 28/08	NEW
H04W 28/0875	H04W 28/08	NEW
H04W 28/0883	H04W 28/08	NEW
H04W 28/0892	H04W 28/08	NEW
H04W 28/09	H04W 28/08	NEW
H04W 28/0908	H04W 28/08	NEW
H04W 28/0917	H04W 28/08	NEW
H04W 28/0925	H04W 28/08	NEW
H04W 28/0933	H04W 28/08	NEW
H04W 28/0942	H04W 28/08	NEW
H04W 28/095	H04W 28/08	NEW
H04W 28/0958	H04W 28/08	NEW
H04W 28/0967	H04W 28/08	NEW
H04W 28/0975	H04W 28/08	NEW
H04W 28/0983	H04W 28/08	NEW
H04W 28/0992	H04W 28/08	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 <u>not</u> 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.