

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 405

DATE: AUGUST 1, 2017

PROJECT RP0103

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

<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
Symbols deleted:	H04L	9/0606
	H04L	9/0612
	H04L	9/0675
	H04L	9/0681
	H04L	9/0687
	H04L	9/0693
	H04L	9/0802
	H04L	9/0805
	H04L	9/0808
	H04L	9/0811
	H04L	9/0813
	H04L	9/0883
	H04L	9/0886
	H04L	9/0888
	H04L	9/18
	H04L	9/20
	H04L	9/22
	H04L	9/24
	H04L	9/26
	H04L	9/28
	H04L	9/3046
	H04L	9/3053
	H04L	9/306
	H04L	9/308
	H04L	9/3086
	H04L	9/3202
	H04L	9/3205
	H04L	9/3207
	H04L	9/3223
	H04L	9/3244
	H04L	9/326
	H04L	9/3276
	H04L	9/3281
	H04L	9/3284
	H04L	9/3286
	H04L	9/3289
	H04L	9/3292
	H04L	9/3294
Scheme Warning Notices to be added/modified/deleted:	H04L	(Subclass)
	H04L	9/0606

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<u>Action*</u>	<u>Subclass</u>	<u>Group(s)</u>
	H04L	9/0612
	H04L	9/0675
	H04L	9/0681
	H04L	9/0687
	H04L	9/0693
	H04L	9/08
	H04L	9/0802
	H04L	9/0805
	H04L	9/0808
	H04L	9/0811
	H04L	9/0813
	H04L	9/0883
	H04L	9/0886
	H04L	9/0888
	H04L	9/18
	H04L	9/22
	H04L	9/26
	H04L	9/30
	H04L	9/3046
	H04L	9/3053
	H04L	9/306
	H04L	9/308
	H04L	9/3086
	H04L	9/3202
	H04L	9/3205
	H04L	9/3207
	H04L	9/3223
	H04L	9/3244
	H04L	9/326
	H04L	9/3276
	H04L	9/3281
	H04L	9/3284
	H04L	9/3286
	H04L	9/3289
	H04L	9/3292
	H04L	9/3294

*Delete rows for actions not applicable; Add additional rows as needed.

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):

H04N, G06F, G06N, G06T, G11B

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

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1. CLASSIFICATION SCHEME CHANGES
 - A. New, Modified or Deleted Group(s)
 - B. New, Modified or Deleted Warning Notice(s)
 - C. New, Modified or Deleted Note(s)
 - D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS (New or Modified)
 - A. DEFINITIONS (Full definition template)
 - B. DEFINITIONS (Definitions Quick Fix)
3. REVISION CONCORDANCE LIST (RCL)
4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. 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 (typewriters B41J; order telegraphs, fire or police telegraphs G08B ; visual telegraphy G08B , G08C ; teleautographic systems G08C ; ciphering or deciphering apparatus per se G09C ; coding, decoding or code conversion, in general H03M ; arrangements common to telegraphic and telephonic communication H04M ; selecting H04Q)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
D	H04L9/0606	2	<i>{including means for manipulating block length (H04L9/0687 takes precedence)}</i>	<administrative transfer to H04L9/0618>
D	H04L9/0612	2	<i>{Countermeasures against differential power analysis}</i>	<administrative transfer to H04L9/003>
D	H04L9/0675	2	<i>{including means for processing multiple rounds}</i>	<administrative transfer to H04L9/0618>
D	H04L9/0681	3	<i>{specifically for Rijndael}</i>	<administrative transfer to H04L9/0631>
D	H04L9/0687	3	<i>{with splitting of the data block into left and right halves, e.g. Feistel structures}</i>	<administrative transfer to H04L9/0625>
D	H04L9/0693	2	<i>{including variable substitution, permutation, order or number of rounds, controlled by a key and/or the input data}</i>	<administrative transfer to H04L9/0618>
D	H04L9/0802	2	<i>{using a key distribution center, a trusted party or a key server}</i>	<administrative transfer to H04L9/0816>
D	H04L9/0805	3	<i>{involving a conference key or a group key}</i>	<administrative transfer to H04L9/0816>
D	H04L9/0808	2	<i>{using a control vector}</i>	<administrative transfer to H04L9/088>
D	H04L9/0811	2	<i>{using Diffie-Hellman key agreement}</i>	<administrative transfer to H04L9/0838>
D	H04L9/0813	3	<i>{with user authentication or key authentication}</i>	<administrative transfer to H04L9/0838>
D	H04L9/0883	2	<i>{using quantum cryptography}</i>	<administrative transfer to H04L9/0852>
D	H04L9/0886	2	<i>{using key recovery or key escrow}</i>	<administrative transfer to H04L9/0894>
D	H04L9/0888	2	<i>{using secret sharing}</i>	<administrative transfer to H04L9/085>

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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#
D	H04L9/18	1	<i>Encryption by serially and continuously modifying data stream elements, e.g. stream cipher systems</i>	<administrative transfer to H04L9/065>
D	H04L9/20	2	<i>Pseudorandom key sequence combined element-for-element with data sequence {(not used; see H04L9/18)}</i>	<administrative transfer to H04L9/0656>
D	H04L9/22	3	<i>with particular pseudorandom sequence generator</i>	<administrative transfer to H04L9/0662>
D	H04L9/24	4	<i>sequence produced by more than one generator {(not used; see H04L9/22)}</i>	<administrative transfer to H04L9/0662>
D	H04L9/26	4	<i>producing a non-linear pseudorandom sequence</i>	<administrative transfer to H04L9/0668>
D	H04L9/28	1	<i>using particular encryption algorithm</i>	H04L9/002, H04L9/008, H04L9/06, H04L9/08, H04L9/30, H04L9/32
D	H04L9/3046	2	<i>{based on factoring a large integer, e.g. Rivest-Shamir-Adleman [RSA]}</i>	<administrative transfer to H04L9/302>
D	H04L9/3053	2	<i>{based on a modular knapsack}</i>	<administrative transfer to H04L9/30>
D	H04L9/306	2	<i>{based on discrete logarithm, e.g. ElGamal}</i>	H04L9/3013, H04L9/3066
D	H04L9/308	2	<i>{based on polynomial equations}</i>	<administrative transfer to H04L9/3093>
D	H04L9/3086	2	<i>{based on probabilistic schemes}</i>	<administrative transfer to H04L9/30>
D	H04L9/3202	2	<i>{involving a third party or a trusted authority}</i>	<administrative transfer to H04L9/321>
D	H04L9/3205	2	<i>{using a non-public key algorithm}</i>	<administrative transfer to H04L9/32>
D	H04L9/3207	2	<i>{using zero-knowledge proof}</i>	<administrative transfer to H04L9/3218>
D	H04L9/3223	2	<i>{using hash functions}</i>	H04L9/3236, H04L9/0643
D	H04L9/3244	2	<i>{for message authentication (H04L9/3281 takes precedence)}</i>	<administrative transfer to H04L9/32>
D	H04L9/326	2	<i>{involving the concurrent use of a plurality of channels of different nature}</i>	<administrative transfer to H04L9/3215>
D	H04L9/3276	3	<i>{involving splitting up or repeating the challenge and/or response}</i>	<administrative transfer to H04L9/3271>
D	H04L9/3281	2	<i>{using electronic signatures}</i>	<administrative transfer to H04L9/3247>
D	H04L9/3284	3	<i>{using blind signatures}</i>	<administrative transfer to H04L9/3257>
D	H04L9/3286	3	<i>{involving a plurality or a group of signers}</i>	<administrative transfer to H04L9/3255>
D	H04L9/3289	3	<i>{with message recovery}</i>	<administrative transfer to H04L9/3247>

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
D	H04L9/3292	4	<i>{with partial message recovery}</i>	<administrative transfer to H04L9/3247>
D	H04L9/3294	2	<i>{using time stamps or public key certificates}</i>	H04L9/3263, H04L9/3297

*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; E= 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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.
- #“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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.

Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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B. New, Modified or Deleted Warning notice(s)

SUBCLASS H04L - TRANSMISSION OF DIGITAL INFORMATION, e.g. TELEGRAPHIC COMMUNICATION (typewriters B41J; order telegraphs, fire or police telegraphs G08B ; visual telegraphy G08B , G08C ; teleautographic systems G08C ; ciphering or deciphering apparatus per se G09C ; coding, decoding or code conversion, in general H03M ; arrangements common to telegraphic and telephonic communication H04M ; selecting H04Q)

<u>Typ e*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	H04L	<p>–</p> <p>The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:</p> <p>H04L12/20 covered by H04L 29/00 H04L12/24 covered by H04L 41/00 H04L12/26 covered by H04L 43/00 H04L12/58 covered by H04L 51/00 H04L12/60-H04L12/62 covered by H04L 12/54 H04L12/70 covered by H04L 47/00 H04L12/701 covered by H04L 45/00 H04L12/703 covered by H04L 45/28 H04L12/705 covered by H04L 45/18 H04L12/707 covered by H04L 45/22, H04L 45/24 H04L12/709 covered by H04L12/711 covered by H04L12/713 covered by H04L 45/586 H04L12/715 covered by H04L 45/04, H04L 45/46, H04L 45/64 H04L12/717 covered by H04L 45/42 H04L12/721 covered by H04L 45/06, H04L 45/12, H04L 45/123, H04L 45/124, H04L 45/127, H04L 45/14, H04L 45/26, H04L 45/32, H04L 45/34, H04L 45/36, H04L 45/38, H04L 45/40, H04L 45/44, H04L 45/566, H04L 45/62, H04L 45/66, H04L 45/68, H04L 45/70, H04L 45/72 H04L12/723 covered by H04L 45/50- H04L 45/507</p>	<p>Add the following rows before the first row:</p> <p>– H04L9/18 covered by H04L9/065 – H04L9/20 covered by H04L9/0656 – H04L9/22 covered by H04L9/0662 – H04L9/24 covered by H04L9/0662 – H04L9/26 covered by H04L9/0668 – H04L9/28 covered by H04L9/002, H04L9/008, H04L9/06, H04L9/08, H04L9/30, H04L9/32</p>

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<u>Type</u> e*	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
		H04L12/725 covered by H04L 45/30- H04L 45/308 H04L12/727 covered by H04L12/729 covered by H04L 45/125 H04L12/733 covered by H04L 45/122, H04L 45/126, H04L 45/20 H04L12/735 covered by H04L 45/128- H04L 45/1287 H04L12/741 covered by H04L12/743 covered by H04L 45/7453, H04L 45/7457 H04L12/745 covered by H04L 45/748 H04L12/747 covered by H04L 45/742 H04L12/749 covered by H04L 45/741 H04L12/751 covered by H04L12/753 covered by H04L 45/48 H04L12/755 covered by H04L 45/021 H04L12/757 covered by H04L 45/023 H04L12/759 covered by H04L 45/023 H04L12/761 covered by H04L 45/16 H04L12/763 covered by H04L12/771 covered by H04L 45/56, H04L 45/563 H04L12/773 covered by H04L 45/60 H04L12/775 covered by H04L 45/58, H04L 45/583 H04L12/781 covered by H04L 45/52 H04L12/801 covered by H04L 47/10, H04L 47/11, H04L 47 /115, H04L 47/12, H04L 47/127, H04L 47/13- H04L 47/196, H04L 47/29, H04L 47/33, H04L 47 /34, H04L 47/35, H04L 47/37, H04L 47/39 H04L12/803 covered by H04L 47/122, H04L 47/125 H04L12/805 covered by H04L 47/36, H04L 47/365 H04L12/807 covered by H04L 47/27 H04L12/811 covered by H04L 47/38	

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
		H04L12/813 covered by H04L 47/20 H04L12/815 covered by H04L 47/22, H04L 47/225, H04L 4 7/23 H04L12/819 covered by H04L 47/21, H04L 47/215 H04L12/823 covered by H04L 47/32- H04L 47/326 H04L12/825 covered by H04L 47/25- H04L 47/266 H04L12/827 covered by H04L12/829 covered by H04L12/833 covered by H04L 47/2458, H04L 47/31 H04L12/835 covered by H04L 47/30 H04L12/841 covered by H04L 47/28- H04L 47/286 H04L12/851 covered by H04L 47/24, H04L 47/2408, H04L 47/2425, H04L 47/2433, H04L 47/245,H04L 47/2 483 H04L12/853 covered by H04L 47/2416 H04L12/855 covered by H04L 47/2466 H04L12/857 covered by H04L 47/2491 H04L12/859 covered by H04L 47/2475 H04L12/861 covered by H04L12/863 covered by H04L 47/50, H04L 47/54, H04L 47 /62- H04L 47/627, H04L 47/628, H04L 47/6285,H04L 47/6295 H04L12/865 covered by H04L 47/6275 H04L12/867 covered by H04L 47/629 H04L12/869 covered by H04L 47/58, H04L 47/60 H04L12/873 covered by H04L 47/52, H04L 47/521, H04L 4 7/522, H04L 47/524, H04L 47/527, H04L 47/528	

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<u>Type</u> e*	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
		H04L12/875 covered by H04L 47/56- H04L 47/568 H04L12/877 covered by H04L 47/525 H04L12/879 covered by H04L 49/901, H04L 49/9026 H04L12/883 covered by H04L12/885 covered by H04L12/891 covered by H04L 47/41 H04L12/893 covered by H04L12/901 covered by H04L12/903 covered by H04L12/905 covered by H04L12/911 covered by H04L 47/70- H04L 47/748, H04L 47/78, H04L 47/781, H04L 4 7/782, H04L 47/783,H04L 47/788, H04L 47/82- H04L 47/829 H04L12/913 covered by H04L 47/724 H04L12/915 covered by H04L 47/785, H04L 47/787, H04L 47/787 H04L12/917 covered by H04L 47/76 H04L12/919 covered by H04L 47/765, H04L 47/767 H04L12/923 covered by H04L 47/762 H04L12/925 covered by H04L 47/722 H04L12/927 covered by H04L 47/80- H04L 47/808 H04L12/931 covered by H04L12/933 covered by H04L 49/10- H04L 49/1592 H04L12/935 covered by H04L 49/30- H04L 49/3009 H04L12/937 covered by H04L 49/253- H04L 49/255 H04L12/939 covered by H04L 49/55- H04L 49/557 H04L12/943 covered by H04L12/945 covered by	

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<u>Typ</u> <u>e*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
		<p>H04L12/947 covered by H04L 49/25, H04L 49/251, H04L 49/252, H04L 49/256, H04L 49/257, H04L 49/258</p> <p>H04L12/951 covered by H04L12/953 covered by H04L25/04 covered by H04L 25/03 H04L25/17 covered by H03H H04L25/18 covered by H04L 25/027 H04L25/28 covered by H04L 25/0268 H04L25/30 covered by H04L 25/061 H04L25/32 covered by H04L 25/49 H04L25/34 covered by H04L 25/4917 H04L25/48 covered by H04L 25/49 H04L25/52 covered by H04L 25/20 H04L25/54 covered by H04L 25/20 H04L25/56 covered by H04L 25/202 H04L25/58 covered by H04L 25/20 H04L25/60 covered by H04L 25/207 H04L25/62 covered by H04L 25/205 H04L25/64 covered by H04L 25/245 H04L25/66 covered by H04L 25/247</p>	
D	H04L9/06 06	<p>WARNING</p> <p>This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0618</p>	Delete
D	H04L9/06 12	<p>WARNING</p> <p>This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/003</p>	Delete
D	H04L9/06 75	<p>WARNING</p> <p>This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0618</p>	Delete
D	H04L9/06 81	<p>WARNING</p> <p>This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0631</p>	Delete
D	H04L9/06 87	<p>WARNING</p>	Delete

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<u>Typ e*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
		This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0625	
D	H04L9/06 93	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0618	Delete
D	H04L9/08	WARNING The former subgroup H04L9/08 was a 2-dot subgroup placed under H04L9/06 . However since the former subgroup H04L9/08 comprises both symmetric and asymmetric key distribution the subgroup H04L9/08 was promoted to one-dot-level, unlike the corresponding IPC subgroup	Delete
D	H04L9/08 02	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0816	Delete
D	H04L9/08 05	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0816	Delete
D	H04L9/08 08	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/088	Delete
D	H04L9/08 11	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0838	Delete
D	H04L9/08 13	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0838	Delete
D	H04L9/08 83	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0852	Delete
D	H04L9/08 86	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/0894	Delete

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<u>Typ e*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H04L9/08 88	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/085	Delete
D	H04L9/18	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/065	Delete
D	H04L9/22	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/065	Delete
D	H04L9/26	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/065	Delete
D	H04L9/30	WARNING the former H04L9/30 was a 2-dot subgroup under H04L9/28 ; however since the subgroup H04L9/28 is not used the subgroup H04L9/30 need to be promoted to one-dot-level	Delete
D	H04L9/30 46	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/302	Delete
D	H04L9/30 53	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/30 +	Delete
D	H04L9/30 6	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3013 and/or H04L9/3066	Delete
D	H04L9/30 8	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3093	Delete
D	H04L9/30 86	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/30	Delete

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<u>Typ e*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H04L9/32 02	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/321	Delete
D	H04L9/32 05	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/32	Delete
D	H04L9/32 07	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3218	Delete
D	H04L9/32 23	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3236 + and/or H04L9/0643	Delete
D	H04L9/32 44	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/32	Delete
D	H04L9/32 6	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3215	Delete
D	H04L9/32 76	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3271	Delete
D	H04L9/32 81	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3247	Delete
D	H04L9/32 84	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3257	Delete
D	H04L9/32 86	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3255	Delete

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<u>Typ e*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
D	H04L9/32 89	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3247	Delete
D	H04L9/32 92	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3247	Delete
D	H04L9/32 94	WARNING This subgroup is no longer used for the classification of new documents as from 1.02.2012 and the backlog of this subgroup is being continuously reclassified to H04L9/3263 + or H04L9/3297	Delete

*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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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	H04L9/0606	<administrative transfer to H04L9/0618>
D	H04L9/0612	<administrative transfer to H04L9/003>
D	H04L9/0675	<administrative transfer to H04L9/0618>
D	H04L9/0681	<administrative transfer to H04L9/0631>
D	H04L9/0687	<administrative transfer to H04L9/0625>
D	H04L9/0693	<administrative transfer to H04L9/0618>
D	H04L9/0802	<administrative transfer to H04L9/0816>
D	H04L9/0805	<administrative transfer to H04L9/0816>
D	H04L9/0808	<administrative transfer to H04L9/088>
D	H04L9/0811	<administrative transfer to H04L9/0838>
D	H04L9/0813	<administrative transfer to H04L9/0838>
D	H04L9/0883	<administrative transfer to H04L9/0852>
D	H04L9/0886	<administrative transfer to H04L9/0894>
D	H04L9/0888	<administrative transfer to H04L9/085>
D	H04L9/18	<administrative transfer to H04L9/065>
D	H04L9/20	<administrative transfer to H04L9/0656>
D	H04L9/22	<administrative transfer to H04L9/0662>
D	H04L9/24	<administrative transfer to H04L9/0662>
D	H04L9/26	<administrative transfer to H04L9/0668>
D	H04L9/28	H04L9/002, H04L9/008, H04L9/06, H04L9/08, H04L9/30, and H04L9/32
D	H04L9/3046	<administrative transfer to H04L9/302>
D	H04L9/3053	<administrative transfer to H04L9/30>
D	H04L9/306	H04L9/3013, H04L9/3066
D	H04L9/308	<administrative transfer to H04L9/3093>

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<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
D	H04L9/3086	<administrative transfer to H04L9/30>
D	H04L9/3202	<administrative transfer to H04L9/321>
D	H04L9/3205	<administrative transfer to H04L9/32>
D	H04L9/3207	<administrative transfer to H04L9/3218>
D	H04L9/3223	H04L9/3236, H04L9/0643
D	H04L9/3244	<administrative transfer to H04L9/32>
D	H04L9/326	<administrative transfer to H04L9/3215>
D	H04L9/3276	<administrative transfer to H04L9/3271>
D	H04L9/3281	<administrative transfer to H04L9/3247>
D	H04L9/3284	<administrative transfer to H04L9/3257>
D	H04L9/3286	<administrative transfer to H04L9/3255>
D	H04L9/3289	<administrative transfer to H04L9/3247>
D	H04L9/3292	<administrative transfer to H04L9/3247>
D	H04L9/3294	H04L9/3263 and H04L9/3297

* 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.

NOTES:

- Only C, D, and Q type entries are included in the table above.
- When multiple symbols are included in the “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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04L9/0606		Delete
H04L9/0612		Delete
H04L9/0675		Delete
H04L9/0681		Delete
H04L9/0687		Delete
H04L9/0693		Delete
H04L9/0802		Delete
H04L9/0805		Delete
H04L9/0808		Delete
H04L9/0811		Delete
H04L9/0813		Delete
H04L9/0883		Delete
H04L9/0886		Delete
H04L9/0888		Delete
H04L 9/18		Delete
H04L 9/20		Delete
H04L 9/22		Delete
H04L 9/24		Delete
H04L 9/26		Delete
H04L 9/28		Delete
H04L9/3046		Delete
H04L9/3053		Delete
H04L9/306		Delete
H04L9/308		Delete
H04L9/3086		Delete
H04L9/3202		Delete
H04L9/3205		Delete
H04L9/3207		Delete
H04L9/3223		Delete
H04L9/3244		Delete
H04L9/326		Delete
H04L9/3276		Delete
H04L9/3281		Delete
H04L9/3284		Delete
H04L9/3286		Delete
H04L9/3289		Delete
H04L9/3292		Delete
H04L9/3294		Delete

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with "NEW."

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- 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.
- E 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>
H04N 21/26613	H04L 9/0802	key distribution for secret or secure communication involving central third party, e.g. key distribution center [KDC] or trusted third party [TTP] H04L 9/083

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>
G06F 7/76	H04L 9/0612	Definition statement	G06F7/764: Masking. Boolean masking in block or stream ciphers in H04L2209/04
G06F 21/75	H04L 9/0612	Limiting references	Change symbol to: H04L 9/003 Countermeasures at the cryptographic algorithm level against power analysis attacks, e.g. modifying the S-Box layout in a DES algorithm
G06N 99/002	H04L 9/0883	Limiting references	Change symbol to: H04L 9/0852 Quantum cryptography
G06T 1/0021	H04L 9/3281	Limiting references	Change symbol to: H04L 9/3247 Arrangements for secret or secure communication using electronic signatures
G06T 1/0021	H04L 9/18	Limiting references	Delete symbol
G11B 20/00086	H04L 9/3294	Informative references	Change symbol to: H04L 9/3263 Public key certificates
H04N 21/00	H04L 9/0802	Informative references	Change symbol to: H04L 9/083 Key distribution for secret or secure communication, using a key

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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>
			distribution center, a trusted party or a key server
H04N 21/26613	H04L 9/0802	Limiting references	Change symbol to: H04L 9/083 Key distribution for secret or secure communication, using a key distribution center, a trusted party or a key server

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.