

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 406

DATE: MAY 1, 2017

PROJECT RP0124

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Symbols deleted:</b>	H04L	12/24, 12/2401, 12/2402, 12/2403, 12/2404, 12/2405, 12/2406, 12/2407, 12/2408, 12/2409, 12/241, 12/2411, 12/2412, 12/2413, 12/2414, 12/2415, 12/2416, 12/2417, 12/2418, 12/2419, 12/242, 12/2421, 12/2422, 12/2423, 12/2424, 12/2425, 12/2426, 12/2427, 12/2428, 12/2429, 12/243, 12/2431, 12/2432, 12/2433, 12/2434, 12/2435, 12/2436, 12/2437, 12/2438, 12/2439, 12/244, 12/2441, 12/2442, 12/2443, 12/2444, 12/2445, 12/2446, 12/2447, 12/2448, 12/2449, 12/2451, 12/2452, 12/2453, 12/2454, 12/2455, 12/2456, 12/2457, 12/2458, 12/2459, 12/246, 12/2461, 12/2462, 12/2463, 12/2464, 12/2465, 12/2466, 12/2467, 12/2468, 12/2469, 12/247, 12/2471, 12/2472, 12/2473, 12/2474, 12/2475, 12/2476, 12/2477, 12/2478, 12/2479, 12/248, 12/2481, 12/2482, 12/2483, 12/2484, 12/2485, 12/2486, 12/2487, 12/2488, 12/2489, 12/249, 12/2491, 12/2492, 12/2493, 12/2494, 12/2495, 12/2496, 12/2497, 12/2498, 12/26, 12/2602, 12/2605, 12/2607, 12/261, 12/2613, 12/2615, 12/2618, 12/2621, 12/2623, 12/2626, 12/2628, 12/2631, 12/2634, 12/2636, 12/2639, 12/2642, 12/2644, 12/2647, 12/2649, 12/2652, 12/2655, 12/2657, 12/266, 12/2663, 12/2665, 12/2668, 12/2671, 12/2673, 12/2676, 12/2678, 12/2681, 12/2684, 12/2686, 12/2689, 12/2692, 12/2694, 12/2697, 12/5689, 12/569, 12/5693, 12/5694, 12/5695, 12/5696, 2012/5697, 2012/5698, 12/58, 12/5805, 12/581, 12/5815, 12/582, 12/5825, 12/583, 12/5835, 12/584, 12/5845, 12/585, 12/5855, 12/586, 12/5865, 12/587, 12/5875, 12/588, 12/5885, 12/589, 12/5895, 12/60, 12/62
<b>Definitions Deleted:</b>	H04L	12/24, 12/2401, 12/2402, 12/2403, 12/2404, 12/2405, 12/2406, 12/2407, 12/2408, 12/2409, 12/241, 12/2411, 12/2412, 12/2413, 12/2414, 12/2415, 12/2416, 12/2419, 12/242, 12/2421, 12/2422, 12/2423, 12/2424, 12/2439, 12/244, 12/2455, 12/2456, 12/2457, 12/2458, 12/2459, 12/246, 12/2461, 12/2462, 12/2463, 12/2464, 12/2465, 12/2466, 12/2467, 12/2471, 12/2472, 12/2474, 12/2475, 12/2476, 12/2477, 12/2478, 12/2483, 12/2484, 12/2485, 12/2486, 12/2487, 12/2488, 12/2489, 12/249, 12/2491, 12/2492, 12/2493, 12/2494, 12/2495, 12/2496, 12/26, 12/2602, 12/2605, 12/2607, 12/261, 12/2613, 12/2615, 12/2618, 12/2621, 12/2626, 12/2628, 12/2631, 12/2634, 12/2639, 12/2642, 12/2644, 12/2647, 12/2655, 12/2657, 12/2671, 12/2673, 12/2676, 12/2692, 12/2694, 12/2697, 12/58, 12/581

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Scheme Warning Notices to be modified/deleted:</b>	H04L (modified)	H04L
	H04L (deleted)	12/24, 12/2401, 12/2402, 12/2403, 12/2404, 12/2405, 12/2406, 12/2407, 12/2408, 12/2409, 12/241, 12/2411, 12/2412, 12/2413, 12/2414, 12/2415, 12/2416, 12/2417, 12/2418, 12/2419, 12/242, 12/2421, 12/2422, 12/2423, 12/2424, 12/2425, 12/2426, 12/2427, 12/2428, 12/2429, 12/243, 12/2431, 12/2432, 12/2433, 12/2434, 12/2435, 12/2436, 12/2437, 12/2438, 12/2439, 12/244, 12/2441, 12/2442, 12/2443, 12/2444, 12/2445, 12/2446, 12/2447, 12/2448, 12/2449, 12/2451, 12/2452, 12/2453, 12/2454, 12/2455, 12/2456, 12/2457, 12/2458, 12/2459, 12/246, 12/2461, 12/2462, 12/2463, 12/2464, 12/2465, 12/2466, 12/2467, 12/2468, 12/2469, 12/247, 12/2471, 12/2472, 12/2473, 12/2474, 12/2475, 12/2476, 12/2477, 12/2478, 12/2479, 12/248, 12/2481, 12/2482, 12/2483, 12/2484, 12/2485, 12/2486, 12/2487, 12/2488, 12/2489, 12/249, 12/2491, 12/2492, 12/2493, 12/2494, 12/2495, 12/2496, 12/2497, 12/2498, 12/26, 12/2602, 12/2697, 12/569, 12/5693, 12/5694, 12/5695, 12/5696, 12/58
<b>Scheme Notes to be modified:</b>	H04L	12/4641
	H04L	29/06176, 61/00, 65/00

The following subclasses are also impacted by this Notice of Changes: A63F, G01R, G05B, G06F, G06T, G06Q, H04B, H04J, H04L, H04M, H04N, H04Q, and H04W

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

1. CLASSIFICATION SCHEME CHANGES
  - A. Deleted Group(s)
  - B. Modified or Deleted Warning Notice(s)
  - C. Modified 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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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	H04L 12/24	2	<i>Arrangements for maintenance or administration</i>	<administrative transfer to H04L41/00>
D	H04L 12/2401	3	<i>{involving integration or standardization}</i>	<administrative transfer to H04L41/02>
D	H04L 12/2402	4	<i>{using standardized network management architectures, e.g. TMN [Telecommunication Management network], UNMA [Unified Network Management Architecture]}</i>	<administrative transfer to H04L41/0206>
D	H04L 12/2403	4	<i>{using standardized network management protocols, e.g. SNMP [Simple Network Management Protocol], CMIP [Common Management Interface Protocol]}</i>	<administrative transfer to H04L41/0213>
D	H04L 12/2404	4	<i>{Multivendor or multistandard integration}</i>	<administrative transfer to H04L41/022>
D	H04L 12/2405	4	<i>{Mapping or translation of multiple network management protocols}</i>	<administrative transfer to H04L41/0226>
D	H04L 12/2406	4	<i>{using object oriented techniques, e.g. CORBA [Common Object Request Broker Architecture] for representation of network management data}</i>	<administrative transfer to H04L41/0233>
D	H04L 12/2407	4	<i>{using relational databases for representation of network management data, e.g. managing via SQL [Structured Query Language]}</i>	<administrative transfer to H04L41/024>
D	H04L 12/2408	4	<i>{using Internet technology, e.g. a standard Web Browser at the management workstation}</i>	<administrative transfer to H04L41/0246>
D	H04L 12/2409	3	<i>{Architectural aspects of network management arrangements}</i>	<administrative transfer to H04L41/04>
D	H04L 12/241	4	<i>{Arrangements involving multiple distributed management centers cooperatively managing the network}</i>	<administrative transfer to H04L41/042>
D	H04L 12/2411	4	<i>{Arrangements involving a hierarchical management structure}</i>	<administrative transfer to H04L41/044>
D	H04L 12/2412	4	<i>{Aspects of network management Agents}</i>	<administrative transfer to H04L41/046>

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D	H04L 12/2413	4	{Arrangements involving CNM [Customer Network Management]}	<administrative transfer to H04L41/18>
D	H04L 12/2414	3	{involving network analysis}	<administrative transfer to H04L41/14>
D	H04L 12/2415	4	{using statistical methods, e.g. distribution tests, or establishing statistical profiles, or calculating probabilities}	<administrative transfer to H04L41/142>
D	H04L 12/2416	4	{for automatically determining the actual topology of a network (Topology discovery in routers H04L45/02)}	<administrative transfer to H04L41/12>
D	H04L 12/2417	4	{Service management, i.e. managing value added network services and related parameters, e.g. SLA [Service Level Agreements], responsetimes, performance, throughput}	<administrative transfer to H04L41/50>
D	H04L 12/2418	4	{involving monitoring of all traffic over a specific network link}	<administrative transfer to H04L43/00>
D	H04L 12/2419	3	{involving management of faults or events or alarms}	<administrative transfer to H04L41/06>
D	H04L 12/242	4	{Alarm or event filtering, e.g. for reduction of information}	<administrative transfer to H04L41/0604>
D	H04L 12/2421	4	{Alarm and event correlation}	<administrative transfer to H04L41/0631>
D	H04L 12/2422	4	{Automatic restoration of network faults}	<administrative transfer to H04L41/0654>
D	H04L 12/2423	4	{involving Artificial Intelligence algorithms, e.g. expert systems, rule based systems, genetic algorithms}	<administrative transfer to H04L41/16>
D	H04L 12/2424	3	{Configuration management of network or network elements (management of devices network applications for proprietary or special purpose network environments H04L29/08567; automatic configuration in wireless networks H04W24/02)}	<administrative transfer to H04L41/08>
D	H04L 12/2425	4	{Configuration setting of network or network elements}	<administrative transfer to H04L41/0803>
D	H04L 12/2426	5	{for initial configuration or provisioning}	<administrative transfer to H04L41/0806>
D	H04L 12/2427	6	{Plug-and-play configuration}	<administrative transfer to H04L41/0809>
D	H04L 12/2428	5	{Changing of configuration}	<administrative transfer to H04L41/0813>
D	H04L 12/2429	6	{due to adaptation, e.g. in response to network events}	<administrative transfer to H04L41/0816>

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D	H04L 12/243	6	{due to updating or upgrading of network functionality, e.g. firmware (topology update or discovery for routing purposes H04L45/02)}	<administrative transfer to H04L41/082>
D	H04L 12/2431	6	{Configuration optimization}	<administrative transfer to H04L41/0823>
D	H04L 12/2432	7	{for network cost reduction}	<administrative transfer to H04L41/0826>
D	H04L 12/2433	7	{for network speed increase}	<administrative transfer to H04L41/083>
D	H04L 12/2434	7	{to reduce network energy consumption}	<administrative transfer to H04L41/0833>
D	H04L 12/2435	7	{to enhance reliability, e.g. reduce downtime}	<administrative transfer to H04L41/0836>
D	H04L 12/2436	5	{Configuration by copying}	<administrative transfer to H04L41/084>
D	H04L 12/2437	6	{based on generic templates}	<administrative transfer to H04L41/0843>
D	H04L 12/2438	6	{based on copy from other elements}	<administrative transfer to H04L41/0846>
D	H04L 12/2439	4	{Bandwidth or capacity management, i.e. automatically increasing or decreasing capacities, e.g. bandwidth on demand}	<administrative transfer to H04L41/0896>
D	H04L 12/244	4	{Assignment of logical groupings to network elements; Policy based network management or configuration}	<administrative transfer to H04L41/0893>
D	H04L 12/2441	4	{Keeping track of network configuration}	<administrative transfer to H04L41/085>
D	H04L 12/2442	5	{by actively collecting or retrieving configuration information}	<administrative transfer to H04L41/0853>
D	H04L 12/2443	5	{by archiving or backing up configuration information}	<administrative transfer to H04L41/0856>
D	H04L 12/2444	5	{by keeping history of different configuration generations or versions}	<administrative transfer to H04L41/0859>
D	H04L 12/2445	5	{by rolling back to previous configuration versions}	<administrative transfer to H04L41/0863>
D	H04L 12/2446	4	{Checking configuration}	<administrative transfer to H04L41/0866>
D	H04L 12/2447	5	{by validating configuration within one network element}	<administrative transfer to H04L41/0869>
D	H04L 12/2448	5	{by checking configuration conflicts with other network elements}	<administrative transfer to H04L41/0873>
D	H04L 12/2449	4	{Aspects of the degree of configuration automation}	<administrative transfer to H04L41/0876>
D	H04L 12/2451	5	{Manual configuration through operator}	<administrative transfer to H04L41/0879>

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D	H04L 12/2452	5	{Semiautomatic configuration, e.g. proposals from system}	<administrative transfer to H04L41/0883>
D	H04L 12/2453	5	{Fully automatic configuration}	<administrative transfer to H04L41/0886>
D	H04L 12/2454	4	{Techniques to speed-up the configuration process}	<administrative transfer to H04L41/0889>
D	H04L 12/2455	3	{Hardware and software tools for network management}	<administrative transfer to H04L41/24>
D	H04L 12/2456	4	{for network design, e.g. with integrated simulation and design testing}	<administrative transfer to H04L41/145>
D	H04L 12/2457	4	{Network management software packages}	<administrative transfer to H04L41/20>
D	H04L 12/2458	4	{using GUI [Graphical User Interface]}	<administrative transfer to H04L41/22>
D	H04L 12/2459	4	{using dedicated network management hardware}	<administrative transfer to H04L41/24>
D	H04L 12/246	4	{using dedicated tools for LAN [Local Area Network] management}	<administrative transfer to H04L41/26>
D	H04L 12/2461	3	{Security in network management, e.g. restricting network management access (protocols or architecture for network security H04L29/06551)}	<administrative transfer to H04L41/28>
D	H04L 12/2462	3	{Decision processes by autonomous network management units using voting and bidding}	<administrative transfer to H04L41/30>
D	H04L 12/2463	3	{Specific management aspects for broadband networks}	<administrative transfer to H04L41/32>
D	H04L 12/2464	3	{Network service management, ensuring proper service fulfilment according to an agreement or contract between two parties, e.g. between an IT-provider and a customer}	<administrative transfer to H04L41/50>
D	H04L 12/2465	4	{Managing SLA [Service Level Agreement] or interaction between SLA and QoS [Quality of Service]}	<administrative transfer to H04L41/5003>
D	H04L 12/2466	5	{Defining or negotiating SLA contracts, guarantees or penalties (SLA negotiation in wireless networks H04W28/24)}	<administrative transfer to H04L41/5006>
D	H04L 12/2467	5	{Measuring SLA quality parameters, e.g. against possible contract or guarantee violations (Monitoring performance metrics on a simple network level H04L12/2634)}	<administrative transfer to H04L41/5009>
D	H04L 12/2468	6	{determining service availability}	<administrative transfer to H04L41/5012>
D	H04L 12/2469	7	{based on actual status of service availability, e.g. which services are available at this point in time}	<administrative transfer to H04L41/5012>

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D	H04L 12/247	7	{based statistics of service availability, e.g. in percentage or over a given time}	<administrative transfer to H04L41/5016>
D	H04L 12/2471	6	{determining service performance, i.e. performance on service level, e.g. response time or MTBF [Mean Time Between Failure]}	<administrative transfer to H04L41/5009>
D	H04L 12/2472	5	{Ensuring SLA (flow or congestion control at network level H04L12/569)}	<administrative transfer to H04L41/5019>
D	H04L 12/2473	6	{by giving priorities, e.g. assigning classes of service}	<administrative transfer to H04L41/5022>
D	H04L 12/2474	6	{by proactively reacting to service quality change (e.g. degradation or upgrade) by reconfiguration (mere restoration of network faults H04L12/2422)}	<administrative transfer to H04L41/5025>
D	H04L 12/2475	5	{Service quality level based billing, e.g. dependent on measured service level customer is charged more or less (general charging or billing for transport of data packets H04L12/14)}	<administrative transfer to H04L41/5029>
D	H04L 12/2476	5	{Generating service level reports}	<administrative transfer to H04L41/5032>
D	H04L 12/2477	5	{Measuring contribution of individual network components to actual service level (alarm or event correlation H04L12/2421)}	<administrative transfer to H04L41/5035>
D	H04L 12/2478	5	{Testing of service level quality}	<administrative transfer to H04L41/5038>
D	H04L 12/2479	4	{Service implementation}	<administrative transfer to H04L41/5041>
D	H04L 12/248	5	{Making service definitions prior to deployment}	<administrative transfer to H04L41/5045>
D	H04L 12/2481	6	{Automatic or semi-automatic definitions, e.g. definition templates}	<administrative transfer to H04L41/5048>
D	H04L 12/2482	6	{Service on demand, i.e. services are defined and provided in real time as requested by the user}	<administrative transfer to H04L41/5051>
D	H04L 12/2483	5	{Automatic provisioning of the service triggered by the service manager, e.g. concrete service implementation by automatic configuration of network components (for initializing configuration, i.e. provisioning of network or devices H04L12/2425)}	<administrative transfer to H04L41/5054>
D	H04L 12/2484	4	{Service discovery by the Service Manager (automatically determining the actual topology of a network H04L12/2416; topology discovery in routers H04L45/02; arrangements for service discovery, e.g. Service Location Protocol [SLP] H04L29/08648)}	<administrative transfer to H04L41/5058>

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D	H04L 12/2485	4	{Customer care}	<administrative transfer to H04L41/5061>
D	H04L 12/2486	5	{Customer Relationship Management (for arrangements involving Customer Network Management, i.e. giving the customer access to network management functions H04L12/2413)}	<administrative transfer to H04L41/5064>
D	H04L 12/2487	5	{Customer-centric QoS [Quality of Service Measurement]}	<administrative transfer to H04L41/5067>
D	H04L 12/2488	5	{Filtering out customers affected by service problems}	<administrative transfer to H04L41/507>
D	H04L 12/2489	5	{Handling of Trouble Tickets}	<administrative transfer to H04L41/5074>
D	H04L 12/249	4	{Managing simple transport services, i.e. providing only network infrastructure}	<administrative transfer to H04L41/5077>
D	H04L 12/2491	4	{based on type of value added network service under agreement}	<administrative transfer to H04L41/508>
D	H04L 12/2492	5	{wherein the managed service relates to web hosting (web hosting as such H04L29/0809, web-browsers G06F17/30861, video-hosting H04N21/2743)}	<administrative transfer to H04L41/5083>
D	H04L 12/2493	5	{wherein the managed service relates to voice services (protocols for real-time multimedia communications H04L29/06176; management of telephonic communication services H04M3/22; management of VoIP services H04M7/0081)}	<administrative transfer to H04L41/5087>
D	H04L 12/2494	5	{wherein the managed service relates to audio / video / TV (protocols for real-time multimedia communications H04L29/06176; interactive television or VoD H04N21/00)}	<administrative transfer to H04L41/509>
D	H04L 12/2495	5	{wherein the managed service relates to messaging (messaging, such as e-mail in packet-switching networks H04L12/58)}	<administrative transfer to H04L41/5093>
D	H04L 12/2496	5	{wherein the managed service relates to chat services (conducting a computer conference H04L12/1822; instant messaging H04L12/581)}	<administrative transfer to H04L41/5093>
D	H04L 12/2497	5	{wherein the managed service relates to access to distributed or central networked applications}	<administrative transfer to H04L41/5096>
D	H04L 12/2498	5	{wherein the managed service relates to media content delivery over network}	<administrative transfer to H04L41/509>
D	H04L 12/26	2	Monitoring arrangements; Testing arrangements	<administrative transfer to H04L43/00>
D	H04L 12/2602	3	{Monitoring arrangements}	<administrative transfer to H04L43/00>
D	H04L 12/2605	4	{involving a reduction of monitoring data}	<administrative transfer to H04L43/02>



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D	H04L 12/2607	5	{using sampling of monitoring data, i.e. storing only a selection of packets}	<administrative transfer to H04L43/022>
D	H04L 12/261	6	{using adaptive sampling}	<administrative transfer to H04L43/024>
D	H04L 12/2613	5	{using flow Flow generation}	<administrative transfer to H04L43/026>
D	H04L 12/2615	5	{using filtering (alarm or event filtering H04L12/242)}	<administrative transfer to H04L43/028>
D	H04L 12/2618	4	{processing of captured monitoring data}	<administrative transfer to H04L43/04>
D	H04L 12/2621	5	{for graphical visualization of monitoring data (graphical user interfaces H04L12/2458)}	<administrative transfer to H04L43/045>
D	H04L 12/2623	5	{Report generation}	<administrative transfer to H04L43/06>
D	H04L 12/2626	6	{for traffic related reporting}	<administrative transfer to H04L43/062>
D	H04L 12/2628	6	{for device related reporting (reporting of sensed information of home appliances H04L12/2803)}	<administrative transfer to H04L43/065>
D	H04L 12/2631	6	{for time frame related reporting}	<administrative transfer to H04L43/067>
D	H04L 12/2634	4	{Monitoring using or based on specific metrics}	<administrative transfer to H04L43/08>
D	H04L 12/2636	5	{based on availability}	<administrative transfer to H04L43/0805>
D	H04L 12/2639	6	{based on connectivity}	<administrative transfer to H04L43/0811>
D	H04L 12/2642	6	{based on functioning (monitoring the activity of the application user H04L29/08675; monitoring appliance functionality of home appliances H04L12/2803)}	<administrative transfer to H04L43/0817>
D	H04L 12/2644	5	{using errors (management of events, faults or alarms H04L12/2419)}	<administrative transfer to H04L43/0823>
D	H04L 12/2647	6	{using packet loss}	<administrative transfer to H04L43/0829>
D	H04L 12/2649	7	{using one way packet loss}	<administrative transfer to H04L43/0835>
D	H04L 12/2652	7	{using round trip packet loss}	<administrative transfer to H04L43/0841>
D	H04L 12/2655	6	{based on transmission error}	<administrative transfer to H04L43/0847>
D	H04L 12/2657	5	{based on delays}	<administrative transfer to H04L43/0852>
D	H04L 12/266	6	{based on one way delays}	<administrative transfer to H04L43/0858>

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
D	H04L 12/2663	6	<i>{based on round trip delays}</i>	<administrative transfer to H04L43/0864>
D	H04L 12/2665	6	<i>{based on Jitter}</i>	<administrative transfer to H04L43/087>
D	H04L 12/2668	5	<i>{based on network utilization}</i>	<administrative transfer to H04L43/0876>
D	H04L 12/2671	6	<i>{based on utilization of link capacity}</i>	<administrative transfer to H04L43/0882>
D	H04L 12/2673	6	<i>{based on throughput}</i>	<administrative transfer to H04L43/0888>
D	H04L 12/2676	6	<i>{based on packet rate}</i>	<administrative transfer to H04L43/0894>
D	H04L 12/2678	4	<i>{using active monitoring, e.g. heartbeat protocols, polling, ping, trace-route}</i>	<administrative transfer to H04L43/10>
D	H04L 12/2681	5	<i>{with adaptive polling, i.e. dynamically adapting the polling rate}</i>	<administrative transfer to H04L43/103>
D	H04L 12/2684	5	<i>{by adding timestamps to packets}</i>	<administrative transfer to H04L43/106>
D	H04L 12/2686	4	<i>{using dedicated network monitoring probes}</i>	<administrative transfer to H04L43/12>
D	H04L 12/2689	4	<i>{using software, i.e. software packages}</i>	<administrative transfer to H04L43/14>
D	H04L 12/2692	4	<i>{using threshold monitoring}</i>	<administrative transfer to H04L43/16>
D	H04L 12/2694	4	<i>{using protocol analyzers}</i>	<administrative transfer to H04L43/18>
D	H04L 12/2697	3	<i>{Testing equipment; Routine testing}</i>	<administrative transfer to H04L43/50>
D	H04L 12/5689	3	<i>{Routing of packets}</i>	<administrative transfer to H04L45/00>
D	H04L 12/569	3	<i>{Flow control}</i>	<administrative transfer to H04L47/10>
D	H04L 12/5693	3	<i>{Queue scheduling in packet switching networks}</i>	<administrative transfer to H04L47/50>
D	H04L 12/5694	3	<i>{Queuing arrangements}</i>	<administrative transfer to H04L49/90>
D	H04L 12/5695	3	<i>{Admission control; Resource allocation}</i>	<administrative transfer to H04L47/70>
D	H04L 12/5696	3	<i>{Packet switches, e.g. Layer 2 switches, Layer 3 switches, Multilayer switches}</i>	<administrative transfer to H04L49/00>
D	H04L2012/5697	3	<i>{Indexing scheme relating to flow control in packet switching networks}</i>	<administrative transfer to H04L47/10 as additional information>

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<b>Type*</b>	<b>Symbol</b>	<b>Indent Level Number of dots (e.g. 0, 1, 2)</b>	<b>Title (new or modified) "CPC only" text should normally be enclosed in {curly brackets}**</b>	<b>Transferred to#</b>
D	H04L2012/5698	3	{Indexing scheme relating to packet switching systems}	<administrative transfer to H04L49/00 as additional information>
D	H04L 12/58	2	Message switching systems, {e.g. electronic mail systems}	<administrative transfer to H04L51/00>
D	H04L 12/5805	3	{with automatic reactions or user delegation, e.g. automatic replies or chatbot}	<administrative transfer to H04L51/02>
D	H04L 12/581	3	{Real time or near real time messaging, e.g. instant messaging [IM]}	<administrative transfer to H04L51/04>
D	H04L 12/5815	4	{use or manipulation of presence information in messaging (presence management H04L29/08684)}	<administrative transfer to H04L51/043>
D	H04L 12/582	4	{interacting with other applications or services}	<administrative transfer to H04L51/046>
D	H04L 12/5825	3	{Message adaptation based on network or terminal capabilities}	<administrative transfer to H04L51/06>
D	H04L 12/583	4	{with adaptation as to content}	<administrative transfer to H04L51/063>
D	H04L 12/5835	4	{with adaptation as to format}	<administrative transfer to H04L51/066>
D	H04L 12/584	3	{messages including annexed information, e.g. attachments}	<administrative transfer to H04L51/08>
D	H04L 12/5845	3	{messages including multimedia information (protocols for multimedia communication H04L29/06176; voice messaging in telephonic communication using automatic or semi-automatic exchanges with non-audio components H04M3/5307)}	<administrative transfer to H04L51/10>
D	H04L 12/585	3	{with filtering and selective blocking capabilities}	<administrative transfer to H04L51/12>
D	H04L 12/5855	3	{with selective forwarding}	<administrative transfer to H04L51/14>
D	H04L 12/586	3	{including conversation history, e.g. threads}	<administrative transfer to H04L51/16>
D	H04L 12/5865	3	{messaging using geographical location information (protocols for adapting network applications to user terminal location H04L29/08657; services specially adapted for wireless communication networks making use of the location of users or terminals H04W4/02)}	<administrative transfer to H04L51/20>
D	H04L 12/587	3	{with notification on incoming messages}	<administrative transfer to H04L51/24>
D	H04L 12/5875	3	{with reliability check, e.g. acknowledgments, fault reporting}	<administrative transfer to H04L51/30>

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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	H04L 12/588	3	<i>{messaging within social networks}</i>	<administrative transfer to H04L51/32>
D	H04L 12/5885	3	<i>{with provisions for tracking the progress of a message}</i>	<administrative transfer to H04L51/34>
D	H04L 12/589	3	<i>{unified messaging, e.g. interactions between instant messaging [IM], e-mail or other types of messages such as Converged IP Messaging [CPM]}</i>	<administrative transfer to H04L51/36>
D	H04L 12/5895	3	<i>{in combination with wireless systems (messaging in wireless communication networks H04W4/12)}</i>	<administrative transfer to H04L51/38>
D	H04L12/60	3	<i>Manual relay systems, e.g. push-button switching</i>	<administrative transfer to H04L12/54>
D	H04L12/62	4	<i>with perforated tape storage</i>	<administrative transfer to H04L12/54>

\*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>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
M	H04L	<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>H04L 12/20 covered by H04L 29/00                      H04L 25/04 covered by H04L 25/03                      H04L 25/17 covered by H03H                      H04L 25/18 covered by H04L 25/027                      H04L 25/28 covered by H04L 25/0268                      H04L 25/30 covered by H04L 25/061                      H04L 25/32 covered by H04L 25/49                      H04L 25/34 covered by H04L 25/4917                      H04L 25/36 covered by                      H04L 25/48 covered by H04L 25/49                      H04L 25/50 covered by H04L 25/05                      H04L 25/52 covered by H04L 25/20                      H04L 25/54 covered by H04L 25/20                      H04L 25/56 covered by H04L 25/202                      H04L 25/58 covered by H04L 25/20                      H04L 25/60 covered by H04L 25/207                      H04L 25/62 covered by H04L 25/205                      H04L 25/64 covered by H04L 25/245                      H04L 25/66 covered by H04L 25/247</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>H04L 12/20 covered by H04L 29/00                      H04L 12/24 covered by H04L 41/00                      H04L 12/26 covered by H04L 43/00                      H04L 12/58 covered by H04L 51/00                      H04L 12/60-H04L 12/62 covered by H04L 12/54                      H04L 12/70 covered by H04L 47/00                      H04L 12/701 covered by H04L 45/00                      H04L 12/703 covered by H04L 45/28                      H04L 12/705 covered by H04L 45/18                      H04L 12/707 covered by H04L 45/22, H04L 45/24                      H04L 12/709 covered by                      H04L 12/711 covered by                      H04L 12/713 covered by H04L 45/586                      H04L 12/715 covered by H04L 45/04, H04L 45/46, H04L 45/64                      H04L 12/717 covered by H04L 45/42                      H04L 12/721 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                      H04L 12/723 covered by H04L 45/50 - H04L 45/507                      H04L 12/725 covered by H04L 45/30-H04L 45/308                      H04L 12/727 covered by                      H04L 12/729 covered by H04L 45/125                      H04L 12/733 covered by H04L 45/122, H04L 45/126, H04L 45/20                      H04L 12/735 covered by H04L 45/128 - H04L 45/1287                      H04L 12/741 covered by H04L 45/7453, H04L 45/7457                      H04L 12/743 covered by</p>

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			H04L 12/745 covered by H04L 45/748 H04L 12/747 covered by H04L 45/742 H04L 12/749 covered by H04L 45/741 H04L 12/751 covered by H04L 12/753 covered by H04L 45/48 H04L 12/755 covered by H04L 45/021 H04L 12/757 covered by H04L 45/023 H04L 12/759 covered by H04L 45/023 H04L 12/761 covered by H04L 45/16 H04L 12/763 covered by H04L 12/771 covered by H04L 45/56, H04L 45/563 H04L 12/773 covered by H04L 45/60 H04L 12/775 covered by H04L 45/58, H04L 45/583 H04L 12/781 covered by H04L 45/52 H04L 12/801 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 H04L 12/803 covered by H04L 47/122, H04L 47/125 H04L 12/805 covered by H04L 47/36, H04L 47/365 H04L 12/807 covered by H04L 47/27 H04L 12/811 covered by H04L 47/38 H04L 12/813 covered by H04L 47/20 H04L 12/815 covered by H04L 47/22, H04L 47/225, H04L 47/23 H04L 12/819 covered by H04L 47/21, H04L 47/215 H04L 12/823 covered by H04L 47/32-H04L 47/326 H04L 12/825 covered by H04L 47/25-H04L 47/266 H04L 12/827 covered by H04L 12/829 covered by H04L 12/833 covered by H04L 47/2458, H04L 47/31 H04L 12/835 covered by H04L 47/30 H04L 12/841 covered by H04L 47/28-H04L 47/286 H04L 12/851 covered by H04L 47/24, H04L 47/2408, H04L 47/2425, H04L 47/2433, H04L 47/245, H04L 47/2483 H04L 12/853 covered by H04L 47/2416 H04L 12/855 covered by H04L 47/2466 H04L 12/857 covered by H04L 47/2491 H04L 12/859 covered by H04L 47/2475

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			H04L 12/861 covered by H04L 12/863 covered by H04L 47/50, H04L 47/54, H04L 47/62-H04L 47/627, H04L 47/628, H04L 47/6285, H04L 47/6295 H04L 12/865 covered by H04L 47/6275 H04L 12/867 covered by H04L 47/629 H04L 12/869 covered by H04L 47/58, H04L 47/60 H04L 12/873 covered by H04L 47/52, H04L 47/521, H04L 47/522, H04L 47/524, H04L 47/527, H04L 47/528 H04L 12/875 covered by H04L 47/56-H04L 47/568 H04L 12/877 covered by H04L 47/525 H04L 12/879 covered by H04L 49/901, H04L 49/9026 H04L 12/883 covered by H04L 12/885 covered by H04L 12/891 covered by H04L 47/41 H04L 12/893 covered by H04L 12/901 covered by H04L 12/903 covered by H04L 12/905 covered by H04L 12/911 covered by H04L 47/70-H04L 47/748, H04L 47/78, H04L 47/781, H04L47/782, H04L 47/783, H04L 47/788, H04L 47/82 – H04L 47/829 H04L 12/913 covered by H04L 47/724 H04L 12/915 covered by H04L 47/785, H04L 47/787, H04L 47/787 H04L 12/917 covered by H04L 47/76 H04L 12/919 covered by H04L 47/765, H04L 47/767 H04L 12/923 covered by H04L 47/762 H04L 12/925 covered by H04L 47/722 H04L 12/927 covered by H04L 47/80- H04L 47/808 H04L 12/931 covered by H04L 12/933 covered by H04L 49/10-H04L 49/1592 H04L 12/935 covered by H04L 49/30-H04L 49/3009 H04L 12/937 covered by H04L 49/253-H04L 49/255 H04L 12/939 covered by H04L 49/55-H04L 49/557 H04L 12/943 covered by H04L 12/945 covered by

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<u>Type*</u>	<u>Location</u>	<u>Old Warning notice</u>	<u>New/Modified Warning notice</u>
			H04L 12/947 covered by H04L 49/25, H04L 49/251, H04L 49/252, H04L 49/256, H04L 49/257, H04L 49/258 H04L 12/951 covered by H04L 12/953 covered by H04L 25/04 covered by H04L 25/03 H04L 25/17 covered by H03H H04L 25/18 covered by H04L 25/027 H04L 25/28 covered by H04L 25/0268 H04L 25/30 covered by H04L 25/061 H04L 25/32 covered by H04L 25/49 H04L 25/34 covered by H04L 25/4917 H04L 25/48 covered by H04L 25/49 H04L 25/52 covered by H04L 25/20 H04L 25/54 covered by H04L 25/20 H04L 25/56 covered by H04L 25/202 H04L 25/58 covered by H04L 25/20 H04L 25/60 covered by H04L 25/207 H04L 25/62 covered by H04L 25/205 H04L 25/64 covered by H04L 25/245 H04L 25/66 covered by H04L 25/247
D	H04L12/24	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/00	
D	H04L12/2401	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/02	
D	H04L12/2402	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0206	
D	H04L12/2403	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0213	
D	H04L12/2404	WARNING: This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/022 ]	



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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/2405	WARNING: This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0226	
D	H04L12/2406	WARNING: This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0233	
D	H04L12/2407	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/024	
D	H04L12/2408	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0246	
D	H04L12/2409	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/04	
D	H04L12/241	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/042	
D	H04L12/2411	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/044	
D	H04L12/2412	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/046	
D	H04L12/2413	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/18	
D	H04L12/2414	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/14	

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<b>Type*</b>	<b>Location</b>	<b>Old Warning notice</b>	<b>New/Modified Warning notice</b>
D	H04L12/2415	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/14	
D	H04L12/2416	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/12	
D	H04L12/2417	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/00	
D	H04L12/2418	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 43/00	
D	H04L12/2419	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/06	
D	H04L12/242	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0604	
D	H04L12/2421	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0631	
D	H04L12/2422	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0654	
D	H04L12/2423	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/16	
D	H04L12/2424	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/08	

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/2425	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0803	
D	H04L12/2426	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0806	
D	H04L12/2427	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0809	
D	H04L12/2428	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0813	
D	H04L12/2429	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0816	
D	H04L12/243	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/085	
D	H04L12/2431	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0823	
D	H04L12/2432	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0826	
D	H04L12/2433	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/083	
D	H04L12/2434	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0833	

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/2435	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0836	
D	H04L12/2436	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/084	
D	H04L12/2437	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0843	
D	H04L12/2438	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0846	
D	H04L12/2439	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0896	
D	H04L12/244	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0893	
D	H04L12/2441	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/085	
D	H04L12/2442	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0853	
D	H04L12/2443	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/0856	
D	H04L12/2444	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0859	

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/2445	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0863	
D	H04L12/2446	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0866	
D	H04L12/2447	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0869	
D	H04L12/2448	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0873	
D	H04L12/2449	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0876	
D	H04L12/2451	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0879	
D	H04L12/2452	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0883	
D	H04L12/2453	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0886	
D	H04L12/2454	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/0889	

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/2455	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/14, H04L 41/20, H04L 41/22, H04L 41/24, H04L 41/26	
D	H04L12/2456	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/14	
D	H04L12/2457	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/20	
D	H04L12/2458	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/22	
D	H04L12/2459	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/24	
D	H04L12/246	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/26	
D	H04L12/2461	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/28	
D	H04L12/2462	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/30	
D	H04L12/2463	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/32	

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/2464	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/50	
D	H04L12/2465	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5003	
D	H04L12/2466	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/5006	
D	H04L12/2467	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/5009	
D	H04L12/2468	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5012	
D	H04L12/2469	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5012	
D	H04L12/247	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/5016	
D	H04L12/2471	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/5009	
D	H04L12/2472	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 41/5019	
D	H04L12/2473	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5022	

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/2474	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5025	
D	H04L12/2475	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5029	
D	H04L12/2476	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5032	
D	H04L12/2477	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5035	
D	H04L12/2478	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5038	
D	H04L12/2479	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5041	
D	H04L12/248	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5045	
D	H04L12/2481	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5048	
D	H04L12/2482	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5051	
D	H04L12/2483	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5054	



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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/2484	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5058	
D	H04L12/2485	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5061	
D	H04L12/2486	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5064	
D	H04L12/2487	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5067	
D	H04L12/2488	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/507	
D	H04L12/2489	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5074	
D	H04L12/249	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5077	
D	H04L12/2491	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/508	
D	H04L12/2492	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5083	
D	H04L12/2493	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5087	

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/2494	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/509	
D	H04L12/2495	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5093	
D	H04L12/2496	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5093	
D	H04L12/2497	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/5096	
D	H04L12/2498	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 41/509	
D	H04L12/26	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 43/00	
D	H04L12/2602	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to subgroups of H04L 43/00	
D	H04L12/2697	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 43/50	
D	H04L12/569	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 47/10	
D	H04L12/5693	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 47/50	

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<b><u>Type*</u></b>	<b><u>Location</u></b>	<b><u>Old Warning notice</u></b>	<b><u>New/Modified Warning notice</u></b>
D	H04L12/5694	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 49/90	
D	H04L12/5695	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 47/70	
D	H04L12/5696	This subgroup is no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to group H04L 49/00	
D	H04L12/58	This subgroup and all its subgroups are no longer used for classification as from 01.05.2012. The backlog of this subgroup is being continuously reclassified to H04L 51/00	

\*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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C. New, Modified or Deleted Note(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>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H04L 12/4641	<p>2. This group <u>does not cover</u>:</p> <ul style="list-style-type: none"> <li>– group multicasting, which is covered by H04L 12/18</li> <li>– configuration of switches supporting VLANs, which is covered by H04L 12/2424</li> <li>– multiprotocol label switching [MPLS], which is covered by H04L 12/5689</li> <li>– spanning tree protocol [STP], which is covered by H04L 12/462</li> <li>– arrangements for network security, which is covered by H04L 29/06612</li> <li>– encapsulation techniques, which is covered by H04L 12/4633</li> <li>– access arrangements, which is covered by H04L 12/2856</li> </ul>	<p><u>Insert</u> the following replacement:</p> <p>2. This group <u>does not cover</u>:</p> <ul style="list-style-type: none"> <li>– group multicasting, which is covered by group <a href="#">H04L 12/18</a></li> <li>– configuration of switches supporting VLANs, which is covered by group <a href="#">H04L 41/08</a></li> <li>– multiprotocol label switching [MPLS], which is covered by group <a href="#">H04L 45/00</a></li> <li>– spanning tree protocols [STP], which are covered by group <a href="#">H04L 12/462</a></li> <li>– arrangements for network security, which are covered by group <a href="#">H04L 29/06612</a></li> <li>– encapsulation techniques, which are covered by group <a href="#">H04L 12/4633</a></li> <li>– access arrangements, which are covered by group <a href="#">H04L 12/2856</a></li> </ul>
M	H04L 29/06176	<p>2. This group <u>does not cover</u>:</p> <ul style="list-style-type: none"> <li>– non-real-time multimedia file transfer, which is covered by H04L 29/08117.</li> <li>– multimedia store or forward messaging as in e-mail, MMS or the like, which is covered by H04L 12/58</li> <li>– analogue multimedia streaming, as in analogue television systems, which is covered by H04N 7/00 and H04N 5/00</li> <li>– bit streaming, i.e. not packet-based, as in ISDN which is covered by H04Q 11/04</li> <li>– instant messaging, which is covered by H04L 12/581</li> <li>– any other multimodal data communications which do not meet the conditions of being packet-based and real-time or pseudo-real-time.</li> </ul>	<p><u>Insert</u> the following replacement:</p> <p>2. This group <u>does not cover</u>:</p> <ul style="list-style-type: none"> <li>– non-real-time multimedia file transfer, which is covered by group <a href="#">H04L 29/08117</a>.</li> <li>– multimedia store or forward messaging as in e-mail, MMS or the like, which are covered by group <a href="#">H04L 51/00</a></li> <li>– analogue multimedia streaming, as in analogue television systems, which is covered by groups <a href="#">H04N 7/00</a> or <a href="#">H04N 5/00</a></li> <li>– bit streaming, i.e. not packet-based, such as in ISDN, which is covered by group <a href="#">H04Q 11/04</a></li> </ul>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
			<p>– instant messaging, which is covered by group <a href="#">H04L 51/04</a></p> <p>– any other multimodal data communications which do not meet the conditions of being packet-based and real-time or pseudo-real-time.</p>
M	H04L 61/00	<p>This group <u>does not cover</u>:</p> <ul style="list-style-type: none"> <li>- Aspects relating to switching or routing which are classified in H04L 12/56.</li> <li>- Aspects relating to configuration management of data networks or network elements in general which are classified in H04L 12/2424.</li> <li>- Aspects of addressing in telephony which are classified in H04M 7/00.</li> <li>- Aspects of addressing within devices, e.g. process or memory, which are classified in G06F 13/42 or G06F 12/00.</li> </ul>	<p><u>Insert</u> the following replacement:</p> <p>This group <u>does not cover</u>:</p> <ul style="list-style-type: none"> <li>- aspects relating to switching or routing which are covered by groups <a href="#">H04L45/00</a> or <a href="#">H04L49/00</a>;</li> <li>- aspects relating to configuration management of data networks or network elements in general, which are covered by group <a href="#">H04L 41/08</a></li> <li>- aspects of addressing in telephony which are covered by group <a href="#">H04M 7/00</a>;</li> <li>- aspects of addressing within devices, e.g. process or memory, which are covered by groups <a href="#">G06F 13/42</a> or <a href="#">G06F 12/00</a>.</li> </ul>
M	H04L 65/00	<p>2. {This group <u>does not cover</u>:</p> <ul style="list-style-type: none"> <li>– non-real-time multimedia file transfer, which is covered by H04L 67/06</li> <li>– multimedia store or forward messaging as in e-mail, MMS or the like, which is covered by H04L 12/58</li> <li>– analogue video streaming, as in analogue television systems, which is covered by H04N 7/00</li> <li>– selective distribution of MPEG elementary or transport streams, containing video and additional data, which is covered by H04N 21/00</li> <li>– bit streaming, i.e. not packet-based, as in ISDN which is covered by H04Q 11/0428</li> <li>– instant messaging, which is covered by H04L 12/581</li> <li>– any other multimodal data communications which do not meet the conditions of being packet-based and real-time or pseudo-real-time</li> <li>– flow control in packet switching networks, which is covered by H04L 12/569.}</li> </ul>	<p><u>Insert</u> the following replacement:</p> <p>2. {This group <u>does not cover</u>:</p> <ul style="list-style-type: none"> <li>– non-real-time multimedia file transfer, which is covered by group <a href="#">H04L 67/06</a>;</li> <li>– multimedia store or forward messaging as in e-mail, MMS or the like, which is covered by group <a href="#">H04L 51/00</a>;</li> <li>– analogue video streaming, as in analogue television systems, which is covered by group <a href="#">H04N 7/00</a>;</li> <li>– selective distribution of MPEG elementary or transport streams, containing video and/or additional data, which is covered by group <a href="#">H04N 21/00</a>;</li> <li>– bit streaming, i.e. not packet-based, such as in ISDN, which is covered by group <a href="#">H04Q 11/0428</a>;</li> <li>– instant messaging, which is covered by group <a href="#">H04L 51/04</a>;</li> </ul>

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
			– any other multimodal data communications which do not meet the conditions of being packet-based and real-time or pseudo-real-time; – flow control in packet switching networks, which is covered by group <a href="#">H04L 47/10.</a> }

\*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.

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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
H04M 3/22	Special rules	The IPC distinguishes between telephone networks and data networks. Network management of telephone networks is classified in H04Q3/0062 and the management of data networks is classified in H04L12/24 and/or H04L12/26. Testing crosstalk effects H04B3/487	<u>Delete</u> the <u>entire</u> Special Rules section.
H04M 3/22			<u>Insert</u> the following <u>new</u> section  As far as management of networks is concerned, one has to distinguish between telephone networks and data networks.  Management of telephone networks is classified in group <a href="#">H04Q 3/0062</a> , while management of data networks is classified in groups <a href="#">H04L 41/00</a> or <a href="#">H04L 43/00</a> .  Testing of crosstalk effects is classified in group <a href="#">H04B 3/487</a> .
H04L 12/24	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2401	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2402	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2403	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2404	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2405	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2406	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2407	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2408	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2409	Symbol and definition		Delete the symbol and entire definition.
H04L 12/241	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2411	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2412	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2413	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2414	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2415	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2416	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2419	Symbol and definition		Delete the symbol and entire definition.
H04L 12/242	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2421	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2422	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2423	Symbol and definition		Delete the symbol and entire definition.
H04L 12/2424	Symbol and definition		Delete the symbol and entire definition.





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H04L12/2642	Symbol and definition		Delete the symbol and entire definition.
H04L12/2644	Symbol and definition		Delete the symbol and entire definition.
H04L12/2647	Symbol and definition		Delete the symbol and entire definition.
H04L12/2655	Symbol and definition		Delete the symbol and entire definition.
H04L12/2657	Symbol and definition		Delete the symbol and entire definition.
H04L12/2671	Symbol and definition		Delete the symbol and entire definition.
H04L12/2673	Symbol and definition		Delete the symbol and entire definition.
H04L12/2676	Symbol and definition		Delete the symbol and entire definition.
H04L12/2692	Symbol and definition		Delete the symbol and entire definition.
H04L12/2694	Symbol and definition		Delete the symbol and entire definition.
H04L12/2697	Symbol and definition		Delete the symbol and entire definition.
H04L12/58	Symbol and definition		Delete the symbol and entire definition.
H04L12/581	Symbol and definition		Delete the symbol and entire definition.

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not 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	H04L 12/24	<administrative transfer to H04L 41/00>
D	H04L 12/2401	<administrative transfer to H04L 41/02>
D	H04L 12/2402	<administrative transfer to H04L 41/0206>
D	H04L 12/2403	<administrative transfer to H04L 41/0213>
D	H04L 12/2404	<administrative transfer to H04L 41/022>
D	H04L 12/2405	<administrative transfer to H04L 41/0226>
D	H04L 12/2406	<administrative transfer to H04L 41/0233>
D	H04L 12/2407	<administrative transfer to H04L 41/024>
D	H04L 12/2408	<administrative transfer to H04L 41/0246>
D	H04L 12/2409	<administrative transfer to H04L 41/04>
D	H04L 12/241	<administrative transfer to H04L 41/042>
D	H04L 12/2411	<administrative transfer to H04L 41/044>
D	H04L 12/2412	<administrative transfer to H04L 41/046>
D	H04L 12/2413	<administrative transfer to H04L 41/18>
D	H04L 12/2414	<administrative transfer to H04L 41/14>
D	H04L 12/2415	<administrative transfer to H04L 41/142>
D	H04L 12/2416	<administrative transfer to H04L 41/12>
D	H04L 12/2417	<administrative transfer to H04L 41/50>
D	H04L 12/2418	<administrative transfer to H04L 43/00>
D	H04L 12/2419	<administrative transfer to H04L 41/06>
D	H04L 12/242	<administrative transfer to H04L 41/0604>
D	H04L 12/2421	<administrative transfer to H04L 41/0631>
D	H04L 12/2422	<administrative transfer to H04L 41/0654>
D	H04L 12/2423	<administrative transfer to H04L 41/16>
D	H04L 12/2424	<administrative transfer to H04L 41/08>
D	H04L 12/2425	<administrative transfer to H04L 41/0803>
D	H04L 12/2426	<administrative transfer to H04L 41/0806>
D	H04L 12/2427	<administrative transfer to H04L 41/0809>
D	H04L 12/2428	<administrative transfer to H04L 41/0813>
D	H04L 12/2429	<administrative transfer to H04L 41/0816>
D	H04L 12/243	<administrative transfer to H04L 41/082>
D	H04L 12/2431	<administrative transfer to H04L 41/0823>
D	H04L 12/2432	<administrative transfer to H04L 41/0826>
D	H04L 12/2433	<administrative transfer to H04L 41/083>
D	H04L 12/2434	<administrative transfer to H04L 41/0833>
D	H04L 12/2435	<administrative transfer to H04L 41/0836>
D	H04L 12/2436	<administrative transfer to H04L 41/084>
D	H04L 12/2437	<administrative transfer to H04L 41/0843>
D	H04L 12/2438	<administrative transfer to H04L 41/0846>
D	H04L 12/2439	<administrative transfer to H04L 41/0896>
D	H04L 12/244	<administrative transfer to H04L 41/0893>
D	H04L 12/2441	<administrative transfer to H04L 41/085>
D	H04L 12/2442	<administrative transfer to H04L 41/0853>
D	H04L 12/2443	<administrative transfer to H04L 41/0856>
D	H04L 12/2444	<administrative transfer to H04L 41/0859>
D	H04L 12/2445	<administrative transfer to H04L 41/0863>

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<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
D	H04L 12/2446	<administrative transfer to H04L 41/0866>
D	H04L 12/2447	<administrative transfer to H04L 41/0869>
D	H04L 12/2448	<administrative transfer to H04L 41/0873>
D	H04L 12/2449	<administrative transfer to H04L 41/0876>
D	H04L 12/2451	<administrative transfer to H04L 41/0879>
D	H04L 12/2452	<administrative transfer to H04L 41/0883>
D	H04L 12/2453	<administrative transfer to H04L 41/0886>
D	H04L 12/2454	<administrative transfer to H04L 41/0889>
D	H04L 12/2455	<administrative transfer to H04L 41/24>
D	H04L 12/2456	<administrative transfer to H04L 41/145>
D	H04L 12/2457	<administrative transfer to H04L 41/20>
D	H04L 12/2458	<administrative transfer to H04L 41/22>
D	H04L 12/2459	<administrative transfer to H04L 41/24>
D	H04L 12/246	<administrative transfer to H04L 41/26>
D	H04L 12/2461	<administrative transfer to H04L 41/28>
D	H04L 12/2462	<administrative transfer to H04L 41/30>
D	H04L 12/2463	<administrative transfer to H04L 41/32>
D	H04L 12/2464	<administrative transfer to H04L 41/50>
D	H04L 12/2465	<administrative transfer to H04L 41/5003>
D	H04L 12/2466	<administrative transfer to H04L 41/5006>
D	H04L 12/2467	<administrative transfer to H04L 41/5009>
D	H04L 12/2468	<administrative transfer to H04L 41/5012>
D	H04L 12/2469	<administrative transfer to H04L 41/5012>
D	H04L 12/247	<administrative transfer to H04L 41/5016>
D	H04L 12/2471	<administrative transfer to H04L 41/5009>
D	H04L 12/2472	<administrative transfer to H04L 41/5019>
D	H04L 12/2473	<administrative transfer to H04L 41/5022>
D	H04L 12/2474	<administrative transfer to H04L 41/5025>
D	H04L 12/2475	<administrative transfer to H04L 41/5029>
D	H04L 12/2476	<administrative transfer to H04L 41/5032>
D	H04L 12/2477	<administrative transfer to H04L 41/5035>
D	H04L 12/2478	<administrative transfer to H04L 41/5038>
D	H04L 12/2479	<administrative transfer to H04L 41/5041>
D	H04L 12/248	<administrative transfer to H04L 41/5045>
D	H04L 12/2481	<administrative transfer to H04L 41/5048>
D	H04L 12/2482	<administrative transfer to H04L 41/5051>
D	H04L 12/2483	<administrative transfer to H04L 41/5054>
D	H04L 12/2484	<administrative transfer to H04L 41/5058>
D	H04L 12/2485	<administrative transfer to H04L 41/5061>
D	H04L 12/2486	<administrative transfer to H04L 41/5064>
D	H04L 12/2487	<administrative transfer to H04L 41/5067>
D	H04L 12/2488	<administrative transfer to H04L 41/507>
D	H04L 12/2489	<administrative transfer to H04L 41/5074>
D	H04L 12/249	<administrative transfer to H04L 41/5077>
D	H04L 12/2491	<administrative transfer to H04L 41/508>
D	H04L 12/2492	<administrative transfer to H04L 41/5083>
D	H04L 12/2493	<administrative transfer to H04L 41/5087>
D	H04L 12/2494	<administrative transfer to H04L 41/509>

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<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
D	H04L 12/2495	<administrative transfer to H04L 41/5093>
D	H04L 12/2496	<administrative transfer to H04L 41/5093>
D	H04L 12/2497	<administrative transfer to H04L 41/5096>
D	H04L 12/2498	<administrative transfer to H04L 41/509>
D	H04L 12/26	<administrative transfer to H04L 43/00>
D	H04L 12/2602	<administrative transfer to H04L 43/00>
D	H04L 12/2605	<administrative transfer to H04L 43/02>
D	H04L 12/2607	<administrative transfer to H04L 43/022>
D	H04L 12/261	<administrative transfer to H04L 43/024>
D	H04L 12/2613	<administrative transfer to H04L 43/026>
D	H04L 12/2615	<administrative transfer to H04L 43/028>
D	H04L 12/2618	<administrative transfer to H04L 43/04>
D	H04L 12/2621	<administrative transfer to H04L 43/045>
D	H04L 12/2623	<administrative transfer to H04L 43/06>
D	H04L 12/2626	<administrative transfer to H04L 43/062>
D	H04L 12/2628	<administrative transfer to H04L 43/065>
D	H04L 12/2631	<administrative transfer to H04L 43/067>
D	H04L 12/2634	<administrative transfer to H04L 43/08>
D	H04L 12/2636	<administrative transfer to H04L 43/0805>
D	H04L 12/2639	<administrative transfer to H04L 43/0811>
D	H04L 12/2642	<administrative transfer to H04L 43/0817>
D	H04L 12/2644	<administrative transfer to H04L 43/0823>
D	H04L 12/2647	<administrative transfer to H04L 43/0829>
D	H04L 12/2649	<administrative transfer to H04L 43/0835>
D	H04L 12/2652	<administrative transfer to H04L 43/0841>
D	H04L 12/2655	<administrative transfer to H04L 43/0847>
D	H04L 12/2657	<administrative transfer to H04L 43/0852>
D	H04L 12/266	<administrative transfer to H04L 43/0858>
D	H04L 12/2663	<administrative transfer to H04L 43/0864>
D	H04L 12/2665	<administrative transfer to H04L 43/087>
D	H04L 12/2668	<administrative transfer to H04L 43/0876>
D	H04L 12/2671	<administrative transfer to H04L 43/0882>
D	H04L 12/2673	<administrative transfer to H04L 43/0888>
D	H04L 12/2676	<administrative transfer to H04L 43/0894>
D	H04L 12/2678	<administrative transfer to H04L 43/10>
D	H04L 12/2681	<administrative transfer to H04L 43/103>
D	H04L 12/2684	<administrative transfer to H04L 43/106>
D	H04L 12/2686	<administrative transfer to H04L 43/12>
D	H04L 12/2689	<administrative transfer to H04L 43/14>
D	H04L 12/2692	<administrative transfer to H04L 43/16>
D	H04L 12/2694	<administrative transfer to H04L 43/18>
D	H04L 12/2697	<administrative transfer to H04L 43/50>
D	H04L 12/5689	<administrative transfer to H04L 45/00>
D	H04L 12/569	<administrative transfer to H04L 47/10>
D	H04L 12/5693	<administrative transfer to H04L 47/50>
D	H04L 12/5694	<administrative transfer to H04L 49/90>
D	H04L 12/5695	<administrative transfer to H04L 47/70>
D	H04L 12/5696	<administrative transfer to H04L 49/00>

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<b>Type*</b>	<b>From CPC Symbol (existing)</b>	<b>To CPC Symbol(s)</b>
D	H04L 2012/5697	<administrative transfer to H04L 47/10 as additional information>
D	H04L 2012/5698	<administrative transfer to H04L 49/00 as additional information>
D	H04L 12/58	<administrative transfer to H04L 51/00>
D	H04L 12/5805	<administrative transfer to H04L 51/02>
D	H04L 12/581	<administrative transfer to H04L 51/04>
D	H04L 12/5815	<administrative transfer to H04L 51/043>
D	H04L 12/582	<administrative transfer to H04L 51/046>
D	H04L 12/5825	<administrative transfer to H04L 51/06>
D	H04L 12/583	<administrative transfer to H04L 51/063>
D	H04L 12/5835	<administrative transfer to H04L 51/066>
D	H04L 12/584	<administrative transfer to H04L 51/08>
D	H04L 12/5845	<administrative transfer to H04L 51/10>
D	H04L 12/585	<administrative transfer to H04L 51/12>
D	H04L 12/5855	<administrative transfer to H04L 51/14>
D	H04L 12/586	<administrative transfer to H04L 51/16>
D	H04L 12/5865	<administrative transfer to H04L 51/20>
D	H04L 12/587	<administrative transfer to H04L 51/24>
D	H04L 12/5875	<administrative transfer to H04L 51/30>
D	H04L 12/588	<administrative transfer to H04L 51/32>
D	H04L 12/5885	<administrative transfer to H04L 51/34>
D	H04L 12/589	<administrative transfer to H04L 51/36>
D	H04L 12/5895	<administrative transfer to H04L 51/38>
D	H04L12/60	<administrative transfer to H04L12/54>
D	H04L12/62	<administrative transfer to H04L12/54>

\* 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 "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>
H04L12/24		DELETE
H04L12/2401		DELETE
H04L12/2402		DELETE
H04L12/2403		DELETE
H04L12/2404		DELETE
H04L12/2405		DELETE
H04L12/2406		DELETE
H04L12/2407		DELETE
H04L12/2408		DELETE
H04L12/2409		DELETE
H04L12/241		DELETE
H04L12/2411		DELETE
H04L12/2412		DELETE
H04L12/2413		DELETE
H04L12/2414		DELETE
H04L12/2415		DELETE
H04L12/2416		DELETE
H04L12/2417		DELETE
H04L12/2418		DELETE
H04L12/2419		DELETE
H04L12/242		DELETE
H04L12/2421		DELETE
H04L12/2422		DELETE
H04L12/2423		DELETE
H04L12/2424		DELETE
H04L12/2425		DELETE
H04L12/2426		DELETE
H04L12/2427		DELETE
H04L12/2428		DELETE
H04L12/2429		DELETE
H04L12/243		DELETE
H04L12/2431		DELETE
H04L12/2432		DELETE
H04L12/2433		DELETE
H04L12/2434		DELETE
H04L12/2435		DELETE
H04L12/2436		DELETE
H04L12/2437		DELETE
H04L12/2438		DELETE
H04L12/2439		DELETE
H04L12/244		DELETE
H04L12/2441		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04L12/2442		DELETE
H04L12/2443		DELETE
H04L12/2444		DELETE
H04L12/2445		DELETE
H04L12/2446		DELETE
H04L12/2447		DELETE
H04L12/2448		DELETE
H04L12/2449		DELETE
H04L12/2451		DELETE
H04L12/2452		DELETE
H04L12/2453		DELETE
H04L12/2454		DELETE
H04L12/2455		DELETE
H04L12/2456		DELETE
H04L12/2457		DELETE
H04L12/2458		DELETE
H04L12/2459		DELETE
H04L12/246		DELETE
H04L12/2461		DELETE
H04L12/2462		DELETE
H04L12/2463		DELETE
H04L12/2464		DELETE
H04L12/2465		DELETE
H04L12/2466		DELETE
H04L12/2467		DELETE
H04L12/2468		DELETE
H04L12/2469		DELETE
H04L12/247		DELETE
H04L12/2471		DELETE
H04L12/2472		DELETE
H04L12/2473		DELETE
H04L12/2474		DELETE
H04L12/2475		DELETE
H04L12/2476		DELETE
H04L12/2477		DELETE
H04L12/2478		DELETE
H04L12/2479		DELETE
H04L12/248		DELETE
H04L12/2481		DELETE
H04L12/2482		DELETE
H04L12/2483		DELETE
H04L12/2484		DELETE
H04L12/2485		DELETE

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04L12/2486		DELETE
H04L12/2487		DELETE
H04L12/2488		DELETE
H04L12/2489		DELETE
H04L12/249		DELETE
H04L12/2491		DELETE
H04L12/2492		DELETE
H04L12/2493		DELETE
H04L12/2494		DELETE
H04L12/2495		DELETE
H04L12/2496		DELETE
H04L12/2497		DELETE
H04L12/2498		DELETE
H04L12/26		DELETE
H04L12/2602		DELETE
H04L12/2605		DELETE
H04L12/2607		DELETE
H04L12/261		DELETE
H04L12/2613		DELETE
H04L12/2615		DELETE
H04L12/2618		DELETE
H04L12/2621		DELETE
H04L12/2623		DELETE
H04L12/2626		DELETE
H04L12/2628		DELETE
H04L12/2631		DELETE
H04L12/2634		DELETE
H04L12/2636		DELETE
H04L12/2639		DELETE
H04L12/2642		DELETE
H04L12/2644		DELETE
H04L12/2647		DELETE
H04L12/2649		DELETE
H04L12/2652		DELETE
H04L12/2655		DELETE
H04L12/2657		DELETE
H04L12/266		DELETE
H04L12/2663		DELETE
H04L12/2665		DELETE
H04L12/2668		DELETE
H04L12/2671		DELETE
H04L12/2673		DELETE
H04L12/2676		DELETE



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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
H04L12/2678		DELETE
H04L12/2681		DELETE
H04L12/2684		DELETE
H04L12/2686		DELETE
H04L12/2689		DELETE
H04L12/2692		DELETE
H04L12/2694		DELETE
H04L12/2697		DELETE
H04L12/5689		DELETE
H04L12/569		DELETE
H04L12/5693		DELETE
H04L12/5694		DELETE
H04L12/5695		DELETE
H04L12/5696		DELETE
H04L2012/5697		DELETE
H04L2012/5698		DELETE
H04L12/58		DELETE
H04L12/5805		DELETE
H04L12/581		DELETE
H04L12/5815		DELETE
H04L12/582		DELETE
H04L12/5825		DELETE
H04L12/583		DELETE
H04L12/5835		DELETE
H04L12/584		DELETE
H04L12/5845		DELETE
H04L12/585		DELETE
H04L12/5855		DELETE
H04L12/586		DELETE
H04L12/5865		DELETE
H04L12/587		DELETE
H04L12/5875		DELETE
H04L12/588		DELETE
H04L12/5885		DELETE
H04L12/589		DELETE
H04L12/5895		DELETE
H04L12/60		DELETE
H04L12/62		DELETE
H04L45/741	H04L12/749	UPDATE

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\*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.
- 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>
G01R 31/021	H04L 12/2697	H04L 43/50
G01R 31/08	H04L 12/2697	H04L 43/50
G01R 31/2825	H04L 12/2697	H04L 43/50
G06F 11/0751	H04L 12/2419	H04L 41/06
G06F 15/17312	H04L 12/5689	H04L 45/00
G06F 17/30949	H04L 12/5689	H04L 45/00
G06F 17/30985	H04L 12/5689	H04L 45/00
G06Q 10/10	electronic mail network systems H04L 12/58;	{; arrangements for user-to-user messaging in packet-switching networks, e.g. e-mail or instant messages, H04L 41/00;}
G06Q 10/107	electronic mail network systems H04L 12/58;	arrangements for user-to-user messaging in packet-switching networks, e.g. e-mail or instant messages, H04L 41/00;
H04L 12/1813	H04L 12/581	H04L 51/04
H04L 12/2807	H04L 12/2416	H04L 41/12
H04L 12/2807	H04L 12/2458	H04L 41/22
H04L 12/2809	H04L 12/2642	H04L 43/0817
H04L 12/2814	H04L 12/2424	H04L 41/08
H04L 12/2859	H04L 12/5689	H04L 45/00
H04L 12/2863	H04L 12/5689	H04L 45/00
H04L 12/2876	H04L 12/244	H04L 41/0893
H04L 12/40006	H04L 12/5694	H04L 49/90
H04L 12/40065	H04L 12/569	H04L 47/10
H04L 12/40071	H04L 12/5694	H04L 49/90
H04L 12/40071	H04L 12/5696	H04L 49/00
H04L 12/40078	H04L 12/24	H04L 41/00
H04L 12/40143	H04L 12/5694	H04L 49/90
H04L 12/40169	H04L 12/2419	H04L 41/06
H04L 12/40169	H04L 12/2422	H04L 41/0654
H04L 12/4641	H04L 12/5689	H04L 45/00
H04L 12/4641	H04L 12/5696	H04L 49/00
H04L 12/4645	H04L 12/5689	H04L 45/00
H04L 12/4675	H04L 12/2424	H04L 41/08
H04L 29/06095	H04L 12/569	H04L 47/10
H04L 29/06176	H04L 12/58	H04L 51/00
H04L 29/06183	H04L 12/24	H04L 41/00

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<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>
H04L 29/06183	H04L 12/26	H04L 43/00
H04L 29/06346	H04L 12/58	H04L 51/00
H04L 29/06408	H04L 12/58	H04L 51/00
H04L 29/06408	H04L 12/581	H04L 51/04
H04L 29/08081	H04L 12/58	H04L 51/00
H04L 29/08099	H04L 12/2408	H04L 41/0246
H04L 29/08099	H04L 12/2602	H04L 43/00
H04L 29/08567	H04L 12/24	H04L 41/00
H04L 29/08675	H04L 12/2602	H04L 43/00
H04L 29/08684	H04L 12/581	H04L 51/04
H04L 29/08702	{involving intermediate processing or storage in the network, e.g. proxy (billing provisions H04L 12/14; network management provisions H04L 12/24; monitoring provisions H04L 12/2602; multimedia network architectures; gateways and control entities H04L 29/0621; multimedia handling; encoding and conversion H04L 29/06476; security provisions H04L 29/06551; addressing provisions H04L 29/12009)}	{involving intermediate processing or storage in the network, e.g. proxy (billing provisions H04L12/14; multimedia network architectures, gateways and control entities H04L29/0621; multimedia handling, encoding and conversion H04L29/06476; security provisions H04L29/06551; addressing provisions H04L29/12009; network management provisions H04L41/00; monitoring provisions H04L43/00)}
H04L 29/08738	H04L 12/5689	H04L 45/00
H04L 29/0899	H04L 12/2458	H04L 41/22
H04L 29/1215	H04L 12/58	H04L 51/00
H04L 29/12726	H04L 12/58	H04L 51/00
H04L 41/5019	H04L 12/569	H04L 47/10
H04L 41/5093	H04L 12/58	H04L 51/00
H04L 41/5093	H04L 12/581	H04L 51/04
H04L 47/2425	H04L 12/2417	H04L 41/50
H04L 63/0227	H04L 12/585	H04L 51/12
H04L 63/10	H04L 12/2461	H04L 41/28
H04L 63/1408	H04L 12/2602	H04L 43/00
H04L 65/00	H04L 12/581	H04L 51/04
H04L 65/10	H04L 12/24	H04L 41/00
H04L 65/10	H04L 12/26	H04L 43/00
H04L 65/10	H04L 12/5695	H04L 47/70
H04L 65/1066	H04L 12/5695	H04L 47/70
H04L 65/1069	H04L 12/5695	H04L 47/70
H04L 65/1079	H04L 12/585	H04L 51/12
H04L 65/40	H04L 12/2464	H04L 41/50
H04L 65/4007	H04L 12/582	H04L 51/046
H04L 65/4023	H04L 12/58	H04L 51/00
H04L 65/4023	H04L 12/581	H04L 51/04
H04L 65/601	H04L 12/569	H04L 47/10
H04L 65/601	H04L 12/5825	H04L 51/06
H04L 65/80	H04L 12/2464	H04L 41/50

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<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>
H04L 65/80	H04L 12/2634	H04L 43/08
H04L 67/025	H04L 12/2408	H04L 41/0246
H04L 67/025	H04L 12/2602	H04L 43/00
H04L 67/1034	H04L 12/2422	H04L 41/0654
H04L 67/125	H04L 12/24	H04L 41/00
H04L 67/16	H04L 12/2464	H04L 41/50
H04L 67/22	H04L 12/2602	H04L 43/00
H04L 67/24	H04L 12/5815	H04L 51/043
H04L 67/28	H04L 12/24	H04L 41/00
H04L 67/28	H04L 12/2602	H04L 43/00
H04L 67/2823	H04L 12/5825	H04L 51/06
H04L 67/32	H04L 12/2464	H04L 41/50
H04L 67/322	H04L 12/2634	H04L 43/08
H04L 67/34	H04L 12/2424	H04L 41/08
H04L 67/36	H04L 12/2458	H04L 41/22
H04L 69/00	H04L 12/24	H04L 41/00
H04L 69/00	H04L 12/26	H04L 43/00
H04L 69/00	H04L 12/5689	H04L 45/00
H04L 69/00	H04L 12/569	H04L 47/10
H04L 69/00	H04L 12/5694	H04L 49/90
H04L 69/00	H04L 12/5696	H04L 49/00
H04L 69/00	H04L 12/58	H04L 51/00
H04L 69/08	H04L 12/2405	H04L 41/0226
H04L 69/16	H04L 12/569	H04L 47/10
H04L 69/22	H04L 12/2605	H04L 43/02
H04L 69/325	H04L 12/5689	H04L 45/00
H04L 69/40	H04L 12/2419	H04L 41/06
H04M 1/72547	H04L 12/58	H04L 51/00
H04M 3/5141	H04L 12/589	H04L 51/36
H04N 21/2355	H04L 12/5825	H04L 51/34
H04N 21/238	H04L 12/569	H04L 47/10
H04N 21/2385	H04L 12/2439	H04L 41/0896
H04N 21/239	H04L 12/569	H04L 47/10
H04N 21/2402	H04L 12/2418	H04L 43/00
H04N 21/2402	H04L 12/2668	H04L 43/0876
H04N 21/2408	H04L 12/2668	H04L 43/0876
H04N 21/25	H04L 12/24	H04L 41/00
H04N 21/254	H04L 12/24	H04L 41/00
H04N 21/2541	H04L 12/2461	H04L 41/28
H04N 21/25866	H04L 12/249	H04L 41/5077
H04N 21/262	H04L 12/569	H04L 47/10
H04N 21/26216	H04L 12/569	H04L 47/10
H04N 21/2668	H04L 12/583	H04L 51/063
H04N 21/4355	H04L 12/5835	H04L 51/066
H04N 21/437	H04L 12/569	H04L 47/10

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<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 21/438	H04L 12/569	H04L 47/10
H04N 21/44209	H04L 12/2439	H04L 41/0896
H04N 21/44227	H04L 12/2639	H04L 43/0811
H04N 21/44231	H04L 12/2642	H04L 43/0817
H04N 21/4516	H04L 12/5825	H04L 51/06
H04N 21/454	H04L 12/585	H04L 51/12
H04N 21/4621	H04L 12/569	H04L 47/10
H04N 21/4627	H04L 12/2461	H04L 41/28
H04N 21/47214	H04L 12/587	H04L 51/24
H04N 21/4786	H04L 12/58	H04L 51/00
H04N 21/633	H04L 12/2419	H04L 41/06
H04N 21/6373	H04L 12/569	H04L 47/10
H04N 21/64723	H04L 12/2626	H04L 43/062
H04N 21/64738	H04L 12/2414	H04L 41/14
H04N 21/64738	H04L 12/2642	H04L 43/0817
H04N 21/64738	H04L 12/569	H04L 47/10
H04N 21/64769	H04L 12/569	H04L 47/10
H04N 21/64784	H04L 12/569	H04L 47/10
H04N 21/64784	H04L 12/5694	H04L 49/90
H04W 4/00	H04L 12/58	H04L 51/00
H04W 4/001	H04L 12/24	H04L 41/00
H04W 4/12	H04L 12/58	H04L 51/00
H04W 4/18	H04L 12/5825	H04L 51/06
H04W 28/0284	H04L 12/2602	H04L 43/00

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>
A63F 2300/572	H04L 12/58	Informative references	H04L 51/00
G01R	H04L 12/26	References out of a residual place	H04L 41/06
G01R 31/28	H04L 12/26	Limiting references	H04L 41/06
G05B 23/00	H04L 12/2419	Limiting references	H04L 41/06
G05B 23/00	H04L 12/2602	Limiting references	H04L 43/00
G05B 23/00	H04L 12/2697	Limiting references	H04L 43/50
G06F 3/0653	H04L 12/2602	Limiting references	H04L 43/00
G06F 3/1226	H04L 12/24	Limiting references	H04L 41/00
G06F 3/1229	H04L 12/24	Limiting references	H04L 41/00
G06F 9/44505	H04L 12/2424	Limiting references	H04L 41/08
G06F 9/54	H04L 12/2419	Limiting references	H04L 41/06

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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>
G06F 9/54	H04L 12/58	Limiting references	H04L 51/00
G06F 11/00	H04L 12/2419	Limiting references	H04L 41/06
G06F 11/00	H04L 12/2602	Limiting references	H04L 43/00
G06F 11/00	H04L 12/2697	Limiting references	H04L 43/50
G06F 11/0703	H04L 12/2419	Limiting references	H04L 41/06
G06F 11/0703	H04L 12/2602	Limiting references	H04L 43/00
G06F 11/2002	H04L 12/2422	Informative references	H04L 41/0654
G06F 11/30	H04L 12/2602	Limiting references	H04L 43/00
G06F 15/16	H04L 12/5689	Limiting references	H04L 45/00
G06F 15/16	H04L 12/569	Limiting references	H04L 47/10
G06F 15/16	H04L 12/5693	Limiting references	H04L 49/00
G06F 15/16	H04L 12/5696	Limiting references	H04L49/00
G06F 15/16	H04L 12/58	Limiting references	H04L 51/00
G06F 15/76	H04L 12/5689	Limiting references	H04L 45/00
G06F 15/76	H04L 12/569	Limiting references	H04L 47/10
G06F 15/76	H04L 12/5693	Limiting references	H04L 49/00
G06F 15/76	H04L 12/5696	Limiting references	H04L49/00
G06F 17/30949	H04L 12/5689	Limiting references	H04L 45/00
G06F 17/30982	H04L 12/5689	Limiting references	H04L 45/00
G06F 17/30982	H04L 12/569	Limiting references	H04L 47/10
G06F 17/30985	H04L 12/5689	Informative references	H04L 45/00
G06F 17/509	H04L 12/2456	Limiting references	H04L41/145
G06F 21/00	H04L 12/24	Limiting references	H04L 41/00
G06T 11/206	H04L 12/26	Limiting references	H04L 41/06
H04B 17/00	H04L 12/26	Informative references	H04L 41/06
H04J 3/0682	H04L 12/2657	Informative references	H04L43/0852
H04J 3/14	H04L 12/24	Informative references	H04L 41/00
H04L 1/1832	H04L 12/569	Limiting references	H04L 47/10
H04L 1/187	H04L 12/569	Limiting references	H04L 47/10
H04L 1/24	H04L 12/2602	Limiting references	H04L 43/00
H04L 1/24	H04L 12/2697	Limiting references	H04L 43/50
H04L 12/14	H04L 12/2475	Application-oriented references	H04L 41/5029
H04L 12/1407	H04L 12/5695	Special rules of classification	H04L 47/70
H04L 12/1407	H04L 12/244	Special rules of classification	H04L 41/0893
H04L 12/145	H04L 12/2475	Informative references	H04L 41/5029
H04L 12/1485	H04L 12/2475	Definition statement	H04L 41/5029
H04L 12/18	H04L 12/581	Definition statement	H04L 51/04
H04L 12/2803	H04L 12/2642	Informative references	H04L 43/0817
H04L 12/2807	H04L 12/24	Limiting references	H04L 41/00
H04L 12/2807	H04L 12/2416	Limiting references	H04L 41/12

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<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
H04L 12/2807	H04L 12/2458	Limiting references	H04L 41/22
H04L 12/2809	H04L 12/2424	Limiting references	H04L 41/08
H04L 12/2809	H04L 12/2642	Limiting references	H04L 43/0817
H04L 12/2814	H04L 12/2424	Limiting references	H04L 41/08
H04L 12/282	H04L 12/24	Limiting references	H04L 41/00
H04L 12/2823	H04L 12/24	Limiting references	H04L 41/00
H04L 12/2856	H04L 12/569	Informative references	H04L 47/10
H04L 12/2859	H04L 12/5689	Informative references	H04L 45/00
H04L 12/2863	H04L 12/5689	Informative references	H04L 45/00
H04L 12/2876	H04L 12/244	Limiting references	H04L 41/0893
H04L 12/40	H04L 12/5696	Limiting references	H04L49/00
H04L 12/40006	H04L 12/5694	Informative references	H04L 49/90
H04L 12/40065	H04L 12/569	Informative references	H04L 47/10
H04L 12/40071	H04L 12/5696	Informative references	H04L 49/00
H04L 12/40071	H04L 12/5694	Informative references	H04L 49/90
H04L 12/40078	H04L 12/24	Informative references	H04L 41/00
H04L 12/40143	H04L 12/5694	Informative references	H04L 49/90
H04L 12/40169	H04L 12/2419	Limiting references	H04L 41/06
H04L 12/40169	H04L 12/2422	Limiting references	H04L 41/0654
H04L 12/437	H04L 12/2419	Limiting references	H04L 41/06
H04L 12/462	H04L 12/5689	Limiting references	H04L 45/00
H04L 12/462	H04L 12/5689	Special rules of classification	H04L 45/00
H04L 12/4625	H04L 12/5696	Informative references	H04L 49/00
H04L 12/4625	H04L 12/5689	Limiting references	H04L 45/00
H04L 12/4625	H04L 12/5696	Limiting references	H04L 49/00
H04L 12/4641	H04L 12/5689	Limiting references	H04L 45/00
H04L 12/4641	H04L 12/5696	Limiting references	H04L 49/00
H04L 12/4645	H04L 12/5689	Limiting references	H04L 45/00
H04L 12/4675	H04L 12/2419	Limiting references	H04L 41/06
H04L 12/4675	H04L 12/2424	Limiting references	H04L 41/08
H04L 12/4683	H04L 12/244	Limiting references	H04L 41/0893
H04L 63/00	H04L 12/2461	Limiting references	H04L 41/28
H04L 63/00	H04L 12/2602	Limiting references	H04L 43/00
H04L 63/00	H04L 12/585	Limiting references	H04L 51/12
H04L 63/10	H04L 12/2461	Limiting references	H04L 41/28
H04L 65/00	H04L 12/24	Informative references	H04L 41/00
H04L 65/00	H04L 12/26	Informative references	H04L 41/06
H04L 65/00	H04L 12/569	Informative references	H04L 47/10
H04L 65/00	H04L 12/58	Informative references	H04L 51/00
H04L 65/00	H04L 12/581	Informative references	H04L 51/04
H04L 65/00	H04L 12/58	Limiting references	H04L 51/00
H04L 65/00	H04L 12/581	Limiting references	H04L 51/04
H04L 65/00	H04L 12/24	Relationships with other classification places	H04L 41/00



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H04L 65/00	H04L 12/26	Relationships with other classification places	H04L 41/06
H04L 65/00	H04L 12/58	Relationships with other classification places	H04L 51/00
H04L 65/00	H04L 12/58	Relationships with other classification places	H04L 51/00
H04L 65/10	H04L 12/24	Limiting references	H04L 41/00
H04L 65/10	H04L 12/26	Limiting references	H04L 41/06
H04L 65/10	H04L 12/5695	Limiting references	H04L 47/70
H04L 65/1066	H04L 12/5695	Limiting references	H04L 47/70
H04L 65/1069	H04L 12/5695	Limiting references	H04L 47/70
H04L 65/1079	H04L 12/585	Limiting references	H04L 51/12
H04L 65/40	H04L 12/2464	Limiting references	H04L 41/50
H04L 65/4023	H04L 12/58	Limiting references	H04L 51/00
H04L 65/4023	H04L 12/581	Limiting references	H04L 51/04
H04L 65/601	H04L 12/5825	Limiting references	H04L 51/06
H04L 65/601	H04L 12/569	Limiting references	H04L 47/10
H04L 65/80	H04L 12/26	Definition statement	H04L 41/06
H04L 65/80	H04L 12/569	Definition statement	H04L 47/10
H04L 65/80	H04L 12/26	Definition statement	H04L 41/06
H04L 65/80	H04L 12/2634	Limiting references	H04L 43/08
H04L 65/80	H04L 12/2464	Limiting references	H04L 41/50
H04L 67/1002	H04L 12/5689	Limiting references	H04L 45/00
H04L 67/1002	H04L 12/24	Special rules of classification	H04L 41/00
H04L 67/1002	H04L 12/26	Special rules of classification	H04L 41/06
H04L 67/1034	H04L 12/2422	Limiting references	H04L 41/0654
H04L 67/104	H04L 12/581	Informative references	H04L 51/04
H04L 67/12	H04L 12/5689	Relationships with other classification places	H04L 45/00
H04L 67/125	H04L 12/24	Limiting references	H04L 41/00
H04L 67/16	H04L 12/2417	Informative references	H04L 41/50
H04L 67/16	H04L 12/2464	Limiting references	H04L 41/50
H04L 67/22	H04L 12/24	Informative references	H04L 41/00
H04L 67/22	H04L 12/2602	Informative references	H04L 43/00
H04L 67/22	H04L 12/581	Informative references	H04L 51/04
H04L 67/22	H04L 12/2602	Limiting references	H04L 43/00
H04L 67/24	H04L 12/5815	Limiting references	H04L 51/043
H04L 67/28	H04L 12/24	Informative references	H04L 41/00
H04L 67/28	H04L 12/2602	Informative references	H04L 43/00
H04L 67/28	H04L 12/58	Limiting references	H04L 51/00
H04L 67/2814	H04L 12/5689	Limiting references	H04L 45/00
H04L 67/2823	H04L 12/5825	Limiting references	H04L 51/06
H04L 67/34	H04L 12/2424	Informative references	H04L 41/08
H04L 67/34	H04L 12/2424	Limiting references	H04L 41/08
H04L 67/36	H04L 12/2458	Limiting references	H04L 41/22

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H04L 69/00	H04L 12/569	Limiting references	H04L 47/10
H04L 69/00	H04L 12/5689	Limiting references	H04L 45/00
H04L 69/00	H04L 12/5694	Limiting references	H04L 49/90
H04L 69/00	H04L 12/5696	Limiting references	H04L 49/00
H04L 69/00	H04L 12/58	Limiting references	H04L 51/00
H04L 69/00	H04L 12/24	Limiting references	H04L 41/00
H04L 69/00	H04L 12/26	Limiting references	H04L 41/06
H04L 69/03	H04L 12/2694	Informative references	H04L 43/18
H04L 69/08	H04L 12/2405	Limiting references	H04L 41/0226
H04L 69/16	H04L 12/569	Limiting references	H04L 47/10
H04L 69/22	H04L 12/2605	Informative references	H04L 43/02
H04L 69/22	H04L 12/2605	Limiting references	H04L 43/02
H04L 69/30	H04L 12/5694	Informative references	H04L 49/90
H04L 69/324	H04L 12/569	Informative references	H04L 47/10
H04L 69/40	H04L 12/2419	Limiting references	H04L 41/06
H04M 1/72547	H04L 12/58	Relationships with other classification places	H04L 51/00
H04M 1/72547	H04L 12/581	Relationships with other classification places	H04L 51/04
H04M 1/72552	H04L 12/581	Relationships with other classification places	H04L 51/04
H04M 3/53	H04L 12/58	Special rules of classification	H04L 51/00
H04M 7/006	H04L 12/24	Special rules of classification	H04L 41/00
H04M 7/006	H04L 12/26	Special rules of classification	H04L 41/06
H04M 15/58	H04L 12/2602	Limiting references	H04L 43/00
H04N 1/00	H04L 12/24	Limiting references	H04L 41/00
H04N 1/00	H04L 12/58	Limiting references	H04L 51/00
H04N 1/00209	H04L 12/58	Informative references	H04L 51/00
H04N 21/00	H04L 12/24	Limiting references	H04L 41/00
H04N 21/00	H04L 12/58	Limiting references	H04L 51/00
H04N 21/2355	H04L 12/5825	Limiting references	H04L 51/06
H04N 21/238	H04L 12/569	Limiting references	H04L 47/10
H04N 21/2385	H04L 12/2439	Limiting references	H04L 41/0896
H04N 21/239	H04L 12/569	Limiting references	H04L 47/10
H04N 21/2402	H04L 12/2418	Limiting references	H04L 43/00
H04N 21/2402	H04L 12/2668	Limiting references	H04L 43/0876
H04N 21/2408	H04L 12/2668	Limiting references	H04L 43/0876
H04N 21/25	H04L 12/24	Limiting references	H04L 41/00
H04N 21/254	H04L 12/24	Limiting references	H04L 41/00
H04N 21/2541	H04L 12/2461	Limiting references	H04L 41/28
H04N 21/25866	H04L 12/249	Limiting references	H04L 41/5077
H04N 21/262	H04L 12/569	Limiting references	H04L 47/10
H04N 21/26216	H04L 12/569	Limiting references	H04L 47/10

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H04N 21/2668	H04L 12/583	Limiting references	H04L 51/063
H04N 21/4355	H04L 12/5835	Limiting references	H04L 51/066
H04N 21/437	H04L 12/569	Limiting references	H04L 47/10
H04N 21/438	H04L 12/569	Limiting references	H04L 47/10
H04N 21/44209	H04L 12/2439	Limiting references	H04L 41/0896
H04N 21/44227	H04L 12/2639	Limiting references	H04L 43/0811
H04N 21/44231	H04L 12/2642	Limiting references	H04L 43/0817
H04N 21/4516	H04L 12/5825	Limiting references	H04L 51/06
H04N 21/454	H04L 12/585	Limiting references	H04L 51/12
H04N 21/4621	H04L 12/569	Limiting references	H04L 47/10
H04N 21/4627	H04L 12/2461	Limiting references	H04L 41/28
H04N 21/47214	H04L 12/587	Limiting references	H04L 51/24
H04N 21/4786	H04L 12/58	Limiting references	H04L 51/00
H04N 21/633	H04L 12/2419	Limiting references	H04L 41/06
H04N 21/6373	H04L 12/569	Limiting references	H04L 47/10
H04N 21/64723	H04L 12/2626	Limiting references	H04L 43/062
H04N 21/64738	H04L 12/2414	Limiting references	H04L 41/14
H04N 21/64738	H04L 12/2642	Limiting references	H04L 41/30
H04N 21/64738	H04L 12/569	Limiting references	H04L 47/10
H04N 21/64769	H04L 12/569	Limiting references	H04L 47/10
H04N 21/64784	H04L 12/569	Limiting references	H04L 47/10
H04N 21/64784	H04L 12/5694	Limiting references	H04L 49/90
H04Q 11/0001	H04L 12/24	Relationships with other classification places	H04L 41/00
H04Q 11/0001	H04L 12/24	Relationships with other classification places	H04L 41/00
H04W 4/00	H04L 12/58	Informative references	H04L 51/00
H04W 8/005	H04L 12/2484	Informative references	H04L 41/5058
H04W 16/18	H04L 12/2456	Informative references	H04L 41/145
H04W 16/22	H04L 12/2456	Informative references	H04L 41/145
H04W 24/00	H04L 12/24	Informative references	H04L 41/00
H04W 24/00	H04L 12/2464	Informative references	H04L 41/50
H04W 24/00	H04L 12/26	Informative references	H04L 41/06
H04W 24/02	H04L 12/2431	Informative references	H04L 41/0823
H04W 24/04	H04L 12/2422	Informative references	H04L 41/0654
H04W 24/06	H04L 12/2456	Informative references	H04L 41/145
H04W 24/06	H04L 12/2602	Informative references	H04L 43/00
H04W 24/08	H04L 12/2456	Informative references	H04L 41/145
H04W 24/08	H04L 12/2602	Informative references	H04L 43/00
H04W 24/10	H04L 12/2623	Informative references	H04L 43/06
H04W 28/10	H04L 12/569	Informative references	H04L 47/10
H04W 28/16	H04L 12/5695	Informative references	H04L 47/70
H04W 28/20	H04L 12/2439	Informative references	H04L 41/0896

CPC NOTICE OF CHANGES 406

DATE: MAY 1, 2017

PROJECT RP0124

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
H04W 36/0044	H04L 12/569	Informative references	H04L 47/10
H04W 72/12	H04L 12/569	Informative references	H04L 47/10
H04W 76/02	H04L 12/5695	Informative references	H04L 47/70

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.