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Broadband Integrated Services Digital Network (B-ISDN); Vocabulary for B-ISDN

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Foreword

This ETSI Technical Report (ETR) has been produced by the Network Aspects (NA) Technical Committee of the European Telecommunications Standards Institute (ETSI).

ETSI Technical Reports (ETRs) are informative documents resulting from ETSI studies which are not appropriate for European Telecommunication Standard (ETS) or Interim - European Telecommunication Standard (I-ETS) status. An ETR may be used to publish material which is either of an informative nature, relating to the use or application of ETSs or I-ETSs, or which is immature and not yet suitable for formal adoption as an ETS or I-ETS.

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1 Scope

This ETSI Technical Report (ETR) lists the terms used in the ETSI deliverables covering aspects of Broadband Integrated Services Digital Networks (B-ISDN). This ETR also includes terms which are already defined in other technical areas where the terms have a special sense in B-ISDN context.

The terms are listed in alphabetical order only and are not sorted according to the technical areas (services, transfer mode, interfaces, etc.) to which they belong.

The list of abbreviations and acronyms include the acronyms used in B-ISDN and broadband contexts.

2 References

This ETR incorporates by dated and undated reference, provisions from other publications. These references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETR only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

publication referred to applies.	
[1]	ITU-T Recommendation I.113: "Vocabulary of Terms for Broadband Aspects of ISDN".
[2]	ITU-T Recommendation I.371: "Traffic control and congestion control in B-ISDN".
[3]	ITU-T Recommendation I.374: "Framework recommendation on "Network capabilities to support multimedia services"".
[4]	ETR 149: "Network Aspects (NA); Interworking between Metropolitan Area Networks (MANs) and Asynchronous Transfer Mode (ATM) networks for the Connectionless Broadband Data Service (CBDS)".
[5]	ETR 155: "Asynchronous Transfer Mode (ATM); Operation Administration and Maintenance (OAM) functions and parameters for assessing performance parameters".
[6]	ETR 161: "Broadband Integrated Services Digital Network (B-ISDN); Functional description of Virtual Path (VP) cross-connect"
[7]	ETS 300 349: "Broadband Integrated Services Digital Network (B-ISDN); Asynchronous Transfer Mode (ATM) Adaptation Layer (AAL) specification - type 3/4".
[8]	ETS 300 353: "Broadband Integrated Services Digital Network (B-ISDN); Asynchronous Transfer Mode (ATM) Adaptation Layer (AAL) specification - type 1".
[9]	ETS 300 354: "Broadband Integrated Services Digital Network (B-ISDN); B-ISDN Protocol Reference Model (PRM)".
[10]	ETS 300 404: "Broadband Integrated Services Digital Network (B-ISDN); B-ISDN Operation And Maintenance (OAM) principles and functions".
[11]	ETS 300 469: "Broadband Integrated Services Digital Network (B-ISDN); Asynchronous Transfer Mode (ATM); B-ISDN management architecture and management information model for the ATM crossconnect".

[12] ETS 300 478-1: "Network Aspects (NA); Connectionless Broadband Data Service (CBDS) over Asynchronous Transfer Mode (ATM); Framework and protocol specification at the User-Network Interface (UNI); Part 1: Specification".

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[13]	ETS 300 479: "Network Aspects (NA); Connectionless Broadband Data Service (CBDS) over Asynchronous Transfer Mode (ATM); Network Node Interface (NNI) specification; Part 1: Specification".
[14]	ETS 300 780: "Network Aspects (NA); Broadband Connection Oriented Bearer Service [ITU-T Recommendation F.811 (1996)]".
[15]	ITU-T Recommendation I.140: "Attribute technique for the characterization of telecommunication services supported by an ISDN and network capabilities of an ISDN".
[16]	ITU-T Recommendation F.710: "General principles for audiographic conference service".
[17]	ITU-T Recommendation T.431: "Document Transfer And Manipulation (DTAM) - Services and protocols - Introduction and general principles".
[18]	ITU-T Recommendation Q.9: "Vocabulary of switching and signalling terms".
[19]	ITU-T Recommendation I.361: "B-ISDN ATM layer specification".
[20]	ITU-T Recommendation I.221: "Common specific characteristics of services".

3 Information about this ETR

Terms and definitions taken from ITU Recommendations are identified by appropriate reference in parentheses at the end of the definition. The numbers after the ITU-T Recommendation I.113 [1] references are the word numbers in ITU-T Recommendation I.113 [1].

Where the definitions has been based upon, but differs from, a definition from another document, the reference is given followed by "modified".

Some definitions include terms in *italics face* to indicate that these terms are defined elsewhere in this report.

The list of abbreviations and acronyms include acronyms such as PAL and SECAM not used in B-ISDN contexts but generally used in broadband contexts. Also included are acronyms with more than one meanings such as CC for Call Control, Country Code or Cross Connect. For some acronyms it is indicated in brackets in which context they are created, e.g (Internet), (ATM Forum). Some out-of-date acronyms are marked (deprecated).

4 Vocabulary of terms

address: A name that contains location information.

addressable entity: An entity which is recognisable by the network, to which the network is able to route a *call*.

addressing domain: The context within an identifier (name, number, etc.) is unique.

assigned cell (ATM layer): Cell which provides a service to an application using the ATM layer service.

Asynchronous Time Division (ATD) multiplexing: A multiplexing technique in which a transmission capability is organized in undedicated slots filled with *cells* with respect to each application's instantaneous real need. In this case, the terminal equipment (i.e. the customer application) defines the actual transmitted bit rate, whatever this rate is, possibly variable during the communication. This technique carries a *labelled interface structure* over a *frame* or a *self-delineating labelled interface* (ITU-T Recommendation I.113-202 [1]).

Asynchronous Transfer Mode (ATM): A *transfer mode* in which the information is organized into cells; it is asynchronous in the sense that the recurrence of cells containing information from an individual user is not necessarily periodic (ITU-T Recommendation I.113-204 [1]).

ATM Adaptation Layer (AAL): The AAL uses the ATM layer service and include multiple protocols to fit the need of the different AAL service users (ETS 300 353 [8]).

ATM connection: A concatenation of ATM layer links in order to provide an end-to-end transfer capability to access points (ITU-T Recommendation I.113-505 [1]).

ATM layer connection: An association established by the ATM layer to support communication between two or more ATM service users (i.e. two or more next higher layer entities, or two or more ATM management entities). The communication over an ATM layer *connection* may be either bidirectional or unidirectional (ITU-T Recommendation I.113-506 [1]).

ATM link: A link provides for the capability of transferring information transparently, and represents the association, between two contiguous *connecting points* or between an endpoint and its contiguous *connecting point* (ITU-T Recommendation I.113-507 [1]).

ATM traffic descriptor: A generic list of traffic parameters that can be used to capture the intrinsic traffic characteristics of an ATM *connection* (ITU-T Recommendation I.113-708 [1]).

block payload: The bits in the information field within a block (ITU-T Recommendation I.113-304 [1]).

block: A unit of information consisting of a *header* and an information field (ITU-T Recommendation I.113-301 [1]).

broadband access: An ISDN access able to contain at least one channel capable of supporting a rate greater than the primary rate, or supporting an equivalent information transfer rate (ITU-T Recommendation I.113-320 [1]).

broadband communication channel: A specific portion of the *information payload capacity*, available to the user for ISDN services. A *broadband* communication channel exists only during a call, as set-up by a signalling or administrative procedure (ITU-T Recommendation I.113-321 [1]).

broadband: A service or system requiring transmission channels greater than the primary rate (ITU-T Recommendation I.113-101 modified [1]).

broadcast communication: Unidirectional communication from a single source access point to an unlimited number (more than one) of unspecified destination access points (ITU-T Recommendation I.140 [15]).

broadcast connection: Unidirectional connection between one (source) endpoint and an unlimited number (more than one) of unspecified destination endpoints (ITU-T Recommendation I.140 [15]).

broadcast: A communication configuration attribute which denotes unidirectional distribution to all users connected to the network and tuned for receiving.

broadcasting service: A radiocommunication service in which the transmissions are intended for direct reception by the general public. This service may include sound transmissions, television transmissions or other types of transmission.

call: A logical association between two or more endpoints, offering the possibility to make use of a telecommunication service.

Cell Delay Variation (CDV): The variation of actual cell arrival times of an ATM connection with respect to the theoretical cell arrival times.

cell delineation: The identification of *cell* boundaries in a cell stream (ITU-T Recommendation I.113-306 [1]).

cell entry event: An event which occurs when the last bit of an ATM cell has completed transmission across a measurement point along a connection (ETR 155 [5]).

cell exit event: An event which occurs when the first bit of an ATM cell has completed transmission across a measurement point along a connection (ETR 155 [5]).

cell rate decoupling: Includes insertion and suppression of idle cell, in order to adapt the rate of valid ATM cells to payload capacity of the transmission system.

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cell: A *block* of fixed length. It is identified by a label at the ATM layer of the B-ISDN protocol reference model (ITU-T Recommendation I.113-305 [1]).

circuit transfer mode: A *transfer mode* in which transmission and switching functions are achieved by permanent allocation of channels/bandwidth between the *connections* (ITU-T Recommendation I.113-206 [1]).

communication entity: A physical or logical object that is able to take part in an instance of communication.

communication: Exchange of information between two or more subscribers according to agreed conventions (ITU-T Recommendation F.710 [16]).

configuration management: A set of management functions which exercise control over the extensions or reductions of a system, the status of the constituent parts and the identity of their allocation (ITU-T Recommendation I.113-604 [1]).

congestion control: A set of actions taken to relieve congestion by limiting the spread and duration of it (ITU-T Recommendation I.113-703 [1]).

congestion: A state of a network element in which the network element is not able to meet the negotiated QOS objective for the already established *connections* and/or for the new *connection* requests (ITU-T Recommendation I.113-702 [1]).

connecting point: A point inside a connection where two adjacent links come together. It is located within a *level* where the information is routed transparently; it provides the connecting functions (ITU-T Recommendation I.113-508 [1]).

Connection Admission Control (CAC): The set of actions taken by the network at the call set up phase (or during call re-negotiation phase) in order to establish whether a virtual channel/virtual path connection can be accepted or rejected (or a request for re-allocation can be accommodated). Routing is part of connection admission control actions (ITU-T Recommendation I.113-704 [1]).

Connection End Point (CEP): A point located at the *level* boundary (e.g. between VC level and VP level) where the *level* service is provided to the next higher level or to the management plane. The CEP provides the connection termination functions (ITU-T Recommendation I.113-509 [1]).

connection: A connection provides for the capability of transferring information between endpoints. It represents the association between endpoints together with the incremental information regarding the information transfer integrity (ITU-T Recommendation I.113-504 [1]).

connectionless service: A service which allows the transfer of information between users without the need for end-to-end call establishment procedures (ITU-T Recommendation I.113-105 [1]).

NOTE: Connectionless services may be used to support both *interactive* and *distributive* services.

connectivity: The capability to establish and maintain connections between networks and parts thereof.

Constant Bit Rate (CBR) service: A telecommunication service characterized by a service bit rate specified by a constant value (ITU-T Recommendation I.113-103 [1]).

continuity check: Mechanism to test the availability of a certain *link* or *connection*. Normally qualified to indicate the object being supervised; (e.g. VP continuity check) (ITU-T Recommendation I.113-614 modified [1]).

contribution, contribution application: Use of a broadband service or channel for transferring audio, video or other information to a user for further *post-production processing* and subsequent distribution (ITU-T Recommendation I.113-111 [1]).

conversational service: An *interactive service* which provides for bi-directional communication by means of real- time (no store and forward) end-to-end information transfer from user to user (ITU-T Recommendation I.113-114 [1]).

cooperation: The act of working mutually together for a common interest.

defect: Limited interruption of the ability of an item to perform a required function. It may or may not lead to maintenance actions depending on the results of additional analysis (ITU-T Recommendation I.113-601 [1]).

deterministic; **ATM deterministic**: A mode of the *asynchronous transfer mode* in which a constant information transfer capacity expressed in terms of a predetermined limiting value for a given service is provided to the user throughout a call (ITU-T Recommendation I.113-209 [1]).

digital section level: Extends between *digital section* end-points and comprises a maintenance entity (ITU-T Recommendation I.113-513 [1]).

digital section: The whole of the means of digital transmission of a signals of specified rate between two digital distribution *frame*s or equivalent (ITU-T Recommendation I.113-502 [1]).

digital transmission path: The whole of the means of transmitting and receiving a digital signal of specified rate between two digital distribution *frame*s (or equivalent) at which terminal equipment or switches will be connected. Terminal equipment are those at which the signal originates or terminates. A transmission path is connected through one or more *digital sections* (ITU-T Recommendation I.113-501 [1]).

distribution service with user individual presentation control: A distribution service in which the information is provided as sequence of information entities e.g. frames with cyclical repetition, so that the user has the ability to select individual information entities and can control the start and order of the information (ITU-T Recommendation I.113-120 [1]).

distribution service without user individual presentation control: A distribution service which users can access without having any control over the start and order of the presentation of the distributed information (ITU-T Recommendation I.113-121 [1]).

distribution service: Service characterized by the unidirectional flow of information from a given point in the network to other (multiple) locations. Distribution services are subdivided into two classes: *distribution service without user individual presentation control* and *distribution service with user individual presentation control* (ITU-T Recommendation I.113-119 [1]).

distribution, distribution application: Use of a broadband service or channel for transferring audio, video or other information to a user or a number of users who will not be expected to apply *post-production processing* to the information (ITU-T Recommendation I.113-110 [1]).

domain: The context within which an identifier (name, number *etc.*) is unique.

emulation: Simulation in real time.

encapsulation: The process by which a data unit is wrapped according to a special protocol in order to be transparently transferred through a network to its final destination.

enhanced quality television: Television of a quality superior to *existing-quality television*, but less than the quality of high-definition television (ITU-T Recommendation I.113-123 [1]).

error check code: Specific result of the error detection code mechanism.

Error Detection Code (EDC): The mechanism for error detection of OAM *cells* (ITU-T Recommendation I.113-615 [1]).

existing quality television: Television as defined in conventional 625-line and 525-line standards such as NTSC, PAL and SECAM (ITU-T Recommendation I.113-122 [1]).

failure: The termination of the ability of an item to perform a required function (ITU-T Recommendation I.113-602 [1]).

Far End Receive Failure (FERF): Specific type of alarm for *failure* reporting. It indicates that the *failure* has occurred at or near to the end of the line furthest from the transmitter (ITU-T Recommendation I.113-616 [1]).

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fault localization: Determination by internal or external test systems of a failed entity (ITU-T Recommendation I.113-611 modified [1]).

fault management cell: Specific OAM *cell* used for *fault* management. Various types of *fault* management cells are defined related to specific functions; e.g. AIS, FERF, Continuity Check (ITU-T Recommendation I.113-612 [1]).

fault: The inability of an item to perform a required function, excluding that inability due to preventive maintenance, lack of external resources, or planned actions (ITU-T Recommendation I.113-603 [1]).

feedback controls: The set of actions taken by the network and by the users to regulate the traffic submitted on ATM connections according to the state of network elements.

frame relay: The transfer of data as a sequence of contiguous bits bracketed by and including beginning and end flag sequences. See *frame relaying bearer service*.

frame relaying bearer service: The *frame* relaying bearer service provides the bidirectional transfer of variable size Service Data Units (SDUs) from one S or T reference point to another with the order preserved. The SDUs are routed through the network by appropriate layer 2 Protocol Data Units (PDUs) on the basis of an attached label.

frame: A *block* of variable length identified by a label at layer 2 of the OSI reference model, e.g. an HDLC *block* (ITU-T Recommendation I.113-308 [1]).

framed interface: An interface where the serial bit stream is segmented into *periodic physical frames*. Each frame is divided by a fixed partition into an overhead and an *information payload* portion (ITU-T Recommendation I.113-311 [1]).

general broadcast signalling virtual channel: A *virtual channel* independent of service profiles and used for broadcast signalling (ITU-T Recommendation I.113-410 [1]).

generic address: An *address* which identifies a set of Network Service Access Points (NAPSs), rather than a single specific NAPS.

header, **cell header**: The bits within a *cell* allocated for functions required to transfer the cell payload within the network (ITU-T Recommendation I.113-307 [1]).

hybrid interface structure: An interface structure which has a mixture of *labelled channels* and *positioned channels* (ITU-T Recommendation I.113-330 [1]

idle cell: A cell which is inserted or extracted by the physical layer in order to adapt the cell flow rate at the boundary between the ATM layer and the physical layer to the available payload capacity of the transmission system.

information payload capacity: The difference between the *interface rate* and the *interface overhead rate*, that is the bit rate of the *interface payload* (ITU-T Recommendation I.113-315 [1]).

Inter Network Interface (INI): See Network Node Interface (NNI).

interaction: Mutual or reciprocal action or influence.

interactive service: A service which provides the means for bidirectional exchange of information between users or between users and hosts. Interactive services are subdivided in three classes of services: *conversational services*, *messaging services* and *retrieval services* (ITU-T Recommendation I.113-113 [1]).

interchange medium: The type of means to interchange data between systems can be either a *storage medium*, a *transmission medium* or a combination (ITU-T Recommendation I.374 [3]).

interface overhead: The remaining portion of the bit stream after deducting the *information payload*. The *interface overhead* may be essential (e.g. framing for an interface shared by users) or ancillary (e.g. performance monitoring) (ITU-T Recommendation I.113-313 [1]).

interface payload: The portion of the bit stream of a *frame*d *interface* which can be used for telecommunication services. Any signalling is included in the *interface payload* (ITU-T Recommendation I.113-312 [1])

interface rate; interface bit rate: The gross bit rate at an interface, that is, the sum of the bit rates of the *interface payload* and the *interface overhead*. Example: the bit rate at the boundary between the physical layer and the physical *medium* (ITU-T Recommendation I.113-314 [1]).

interworking: Interactions between networks, between end systems, or between parts thereof, with the aim of providing a functional entity capable of supporting an end-to-end communication.

invalid cell: A *cell* where the header by the header error control process is declared to contain errors (ITU-T Recommendation I.113-317 [1]).

labelled channel: A temporally-ordered collection of all *block payloads* having a common label value (ITU-T Recommendation I.113-322 [1]).

labelled deterministic channel: A *labelled channel* with the property that the aggregated payload capacity of all *block*s in each successive interval of specified constant duration is a constant (ITU-T Recommendation I.113-323 [1]).

labelled interface structure: An interface structure in which all services and signalling is provided by *labelled channels*. A *labelled interface structure* can be accommodated within a *frame*d *interface* or a *self-delineating labelled interface* (ITU-T Recommendation I.113-327 [1]).

labelled multiplexing: The multiplexing of *labelled channels* by concatenating the *block*s of the different channels (ITU-T Recommendation I.113-325 [1]).

labelled statistical channel: A *labelled channel* in which the payload of the successive *block*s of the channel is random and/or the *block* durations are random (ITU-T Recommendation I.113-324 [1]).

level: The term level is used when describing the hierarchical structure of a network from a transport viewpoint (ITU-T Recommendation I.113-511 modified [1]).

link connection: A transport entity provided by the client/server association. It is formed by near-end adaptation function, a server trail and a far end adaptation function between *connection* points. It can be configured as part of the trail management process in the associated server layer (ETS 300 469 [11]).

link: A topological component which describes the fixed relationship between a *sub-network* and another *sub-network* or access group (ETS 300 469 [11]).

logical signalling channel: A logical channel for signalling information which is contained within an information channel or a *physical signalling channel* (ITU-T Recommendation I.113-408 [1]).

maintenance event: An instantaneous maintenance occurrence that changes the global status of an object (ITU-T Recommendation I.113-608 [1]).

managed entity: A physical or logical resource that is to be managed (ITU-T Recommendation I.113-606 [1]).

management entity: An entity capable of providing management functions (e.g. operation, administration, maintenance and provisioning) (ITU-T Recommendation I.113-605 [1]).

map: To map (over) is to establish a defined correspondence with the quantities or values of another set (ITU-T Recommendation Q.9 [18]).

maximum bit rate: The maximum bit rate corresponds to the maximum usable transfer bit rate from the users standpoint (ETS 300 780 [14]).

mean bit rate: The mean bit rate correspond to the average usable transfer bit rate from the users standpoint (ETS 300 780 [14]).

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medium (plural media): A means by which information is perceived, expressed, stored or transmitted. The term 'media' has many meanings depending on the context in which it is used. For unambiguous usage the term should always be accompanied by one of the following expressions: perception medium, representation medium, presentation medium, storage medium, transmission medium (ITU-T Recommendation I.374 [3]).

message mode: A mode of service offered by the AAL type 3/4 and 5, where the AAL SDU is passed across the AAL interface in exactly one AAL IDU (ITU-T Recommendation I.113-523 [1]).

messaging service: An *interactive service* which offers user-to-user communication between individual users via storage units with store-and-forward, mailbox and/or message handling, (e.g. information editing, processing and conversion) functions (ITU-T Recommendation I.113-115 [1]).

meta-signalling: The procedure for establishing, checking and releasing *signalling virtual channels* (ITU-T Recommendation I.113-411 [1]).

mixed document: A document that may contain text, graphics, data, image and moving picture information as well as voice annotation (ITU-T Recommendation I.113-106 [1]).

monitoring cell: Specific *OAM cell* used for performance monitoring (ITU-T Recommendation I.113-610 [1]).

multicast communication: Unidirectional communication from a single source access point to a limited number (more than one) of specified destination access points (ITU-T Recommendation I.140 [15]).

multicast connection: Unidirectional connection between one (source) endpoint and a limited number (more than one) of specified destination endpoints (ITU-T Recommendation I.140 [15]).

multicast: Unidirectional communication from a single source entity to a limited number of specified destination entities.

multiconnection call: A call which is supported by two or more connections between the users.

multimedia call: A call which offers a multimedia service.

multimedia service: A service in which the interchanged information consists of more than one type, such as text, graphics, sound, image and video (ITU-T Recommendation I.113-107 [1]).

multimedia: The property of a piece of information, an application or user equipment, to handle several types of data. Multimedia is an adjective and must be attached to a noun to define a precise context, e.g. multimedia service, multimedia network, multimedia application (ITU-T Recommendation I.374 [3]).

multiparty call: A call in which three or more users are involved.

multiparty multiconnection call: A call that has both multiparty and multiconnection characteristics.

multipoint-to-multipoint connection: Connection between multiple (source) endpoints and multiple (destination) endpoints for bidirectional asymmetric or bidirectional symmetric communication (ITU-T Recommendation I.140 [15]).

multipoint-to-point connection: Connection between multiple (source) endpoints and a single (destination) endpoint for bidirectional asymmetric, bidirectional symmetric or unidirectional communication (ITU-T Recommendation I.140 [15]).

multipoint: A communication configuration attribute which denotes that the communication involves more than two network terminations (ITU-T Recommendation I.113-109 modified [1]).

name: Identification of an object. In telecommunications names are used to distinguish communication entities: The significance of a name is related to the domain in which it is used.

network connection: A transport entity formed by the series of *connections* between termination connection points (ETS 300 469 [11]).

network charging capabilities: A set of actions and procedures performed by the network in order to determine all the network parameters of a communication, which are required for account management, and to determine the values of these parameters.

network determined user busy: Refers to the situation where the network has determined that resources required to complete the call on the called users access interface are not currently available (ETS 300 780 [14]).

Network Node Interface (NNI): The interface at a network node which is used to interconnect with another network node. An NNI connecting two nodes in different networks is sometimes referred to as an Inter Network Interface (INI).

network operator: Entity which provides the network operating elements and resources for the actual execution of services (ETS 300 780 [14]).

Network Parameter Control (NPC): The set of actions taken by the network to monitor and control traffic at the inter Network Node Interface, to protect network resources from malicious as well as unintentional misbehaviour by detecting violations of negotiated parameters and taking appropriate actions (ITU-T Recommendation I.113-706).

number: A *name* expressed as a string of digits. In some cases it may contain location information.

OAM cell: A *cell* that carries OAM information for the performing of specific OAM functions. The term maintenance cell is often used as synonym for OAM cell (ITU-T Recommendation I.113-609 [1]).

OAM flow: Bidirectional information flow for the performance of OAM functions in the network (ITU-T Recommendation I.113-613 [1]).

OAM level: The OAM functions are organized in five OAM hierarchical levels associated with the ATM and the Physical Layer, to which correspond five OAM flows (ITU-T Recommendation I.113-512 [1]).

packet transfer mode: A *transfer mode* in which the transmission and switching functions are achieved by *packet* oriented techniques, so as to dynamically share network transmission and switching resources between a multiplicity of connections (ITU-T Recommendation I.113-208 [1]).

packet: An information *block* identified by a label at layer 3 of the OSI reference model (ITU-T Recommendation I.113-207 [1]).

payload module: That portion of the *information payload*, of an interface, within which one or more channels entirely exist (ITU-T Recommendation I.113-316 [1]).

Payload Type Identifier (PTI): A 3-bit field in the ATM cell header identifying the type of payload. Note: The use of this identifier is specified in ITU-T Recommendation I.361 [19].

perception medium: The nature of the information as perceived by the user (ITU-T Recommendation I.374 [3]).

performance management cell: A specific *OAM cell* used for *performance management* (ITU-T Recommendation I.113-618 modified [1]).

performance management: A set of management functions which enable the performance of the network services to be measured and corrective actions to be taken (ITU-T Recommendation I.113-617 [1]).

performance monitoring: The action of continuous or periodic checking of a managed entity to test its normal functioning (ITU-T Recommendation I.113-619 [1]).

periodic frame: A transmission segment which is repeated at intervals of equal duration (e.g. 125 μs), and may be delineated by incorporating fixed periodic patterns into the bit stream (ITU-T Recommendation I.113-310 [1]).

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physical frame: A segment of a serial logical bit stream at an interface, partitioned into successive segments (ITU-T Recommendation I.113-309 [1]).

physical signalling channel: A dedicated physical channel (e.g. D-channel) used for signalling information, It may be used to carry other information (ITU-T Recommendation I.113-407 [1]).

point-to-multipoint connection: Connection between one (source) endpoint and multiple (destination) endpoints for bidirectional asymmetric or bidirectional symmetric communication (ITU-T Recommendation I.140 [15]).

positioned channel: A channel that occupies bit positions which form a fixed periodic pattern (e.g. B- H- and D-channels in ISDN user network interfaces) (ITU-T Recommendation I.113-328 [1]).

positioned interface structure: A structure in which all services and signalling are provided by *positioned channels*. Such a structure can exist only within a *framed interface* (ITU-T Recommendation I.113-329 [1]).

post-production processing: Further processing of contributed audio and video information, to change the form or presentation of the information prior to its final utilization (ITU-T Recommendation I.113-112) [1].

presentation medium: The type of physical means which is used to reproduce information to the user (output device) or the acquired information from the user (input device) (ITU-T Recommendation I.374 [3]).

primitive: See service primitive.

regenerator section level: Extends between regenerator section endpoints (ITU-T Recommendation I.113-514 [1]).

regenerator section: Portion of a *digital section* (It is a maintenance sub-entity) (ITU-T Recommendation I.113-503 [1]).

representation medium: The type of the interchanged data, which defines the nature of the information as described by its coded form (ITU-T Recommendation I.374 [3]).

retrieval service: An *interactive service* which provides the capability of accessing information stored in data base centres. This information will be send to the user on demand only. The information can be retrieved on an individual basis, i.e. the time at which an information sequence is to start is under control of the user (ITU-T Recommendation I.113-117 [1]).

selective broadcast signalling virtual channel: A *virtual channel* allocated to a service profile and used for broadcast signalling (ITU-T Recommendation I.113-411 [1]).

self-delineating block: A *block* with the property that its endpoints can be identified by examining the block itself. A defined pattern or flag at the beginning of each block might serve to demarcate the block (ITU-T Recommendation I.113-302 [1]).

self-delineating labelled interface: An interface whose entire bit stream consists of a self delineating *labelled multiplexing* (ITU-T Recommendation I.113-326 [1]).

Service Access Point (SAP): The point at which services are provided by a layer to the next higher layer.

service bit rate: The bit rate which is available to a user for the transfer of user information (ITU-T Recommendation I.113-102 [1]).

service component: A part of a service which describes a mono-medium communication related to a single information type.

service control element: The primitives needed to control a multimedia service, for example to start a call, to add or release a service component (ITU-T Recommendation I.374 [3]).

Service Data Unit (SDU): The block of user information data passed at the source service access point as part of the service primitive. The exact definition of the SDU length and structure is specific for every service subcategory.

service primitive: The smallest defined interaction between a service user and the *service provider* (ITU-T Recommendation T.431 [17]).

service profile: A collection of information maintained by the network characterizing a set of services provided by the network to a user.

service provider: Entity which offers services for service subscription. The network operator may be the service provider (ETS 300 780 [14]).

service subscriber: Entity which subscribes to a service offered by the service provider (ETS 300 780 [14]).

Signalling Virtual Channel (SVC): A *virtual channel* for transporting signalling information (ITU-T Recommendation I.113-409 [1]).

simple call: Two party call supported by one *connection*. The *connection* can be unidirectional or bidirectional.

simulation: Imitation of the characteristics and appearance of a particular function.

sound retrieval service: On-demand (user initiated) retrieval of music and other audio information (ITU-T Recommendation I.113-118 [1]).

source traffic descriptor: A set of traffic parameters belonging to the ATM traffic descriptor, which is used during the *connection* set-up to capture the intrinsic traffic characteristics of the *connection* requested by the source (ITU-T Recommendation I.113-709 [1]).

statistical; **ATM statistical**: A mode of the *asynchronous transfer mode* in which the information transfer capacity specified for a given service provided to the user throughout a call is expressed in terms of values of parameters such as mean, peak and standard deviation (ITU-T Recommendation I.113-210 [1]).

storage medium: The type of physical means to store data (ITU-T Recommendation I.374 [3]).

streaming mode: A mode of service offered by the AAL type 3/4 and 5, where the AAL SDU is passed across the AAL interface in one or more AAL IDUs (ITU-T Recommendation I.113-524 [1]).

Structured Data Transfer (SDT): The SDT supports the transmission of structured data (blocks of user data organized in octets) by using a pointer to the start of a block (ETS 300 353 [8]).

sub-network connection: A transport entity formed by a *connection* across a sub-network between connection points. It can be configured as part of the trail management process (ETS 300 469 [11]).

sub-network: A topological component used to effect routing and management. It describes the potential for sub-network connections across the sub-network. It can be partitioned into interconnected sub-networks and *links*. Each sub-network in turn can be partitioned into smaller sub-networks and *links* and so on. A sub-network may be contained within one physical node (ETS 300 469 [11]).

synchronous time division multiplexing: A multiplexing techniques supporting the *synchronous transfer mode* (STM) (ITU-T Recommendation I.113-203 [1]).

Synchronous Transfer Mode (STM): A *transfer mode* which offers periodically to each *connection* a fixed-length word (ITU-T Recommendation I.113-205 [1]).

system protection: The action of minimizing the effect of a managed entity by blocking or changeover to other entities (As a result the failed entity is excluded from operation) (ITU-T Recommendation I.113-607 [1]).

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throughput: The number of data bits contained in a *block* (e.g. between the address field and the CRC field of the LAPD-based *frames*) successfully transferred in one direction across a section per unit time (ITU-T Recommendation I.113-303 [1]).

traffic contract: The requested QOS for any given ATM connection and the maximum CDV tolerance allocated to the CEQ (ITU-T Recommendation I.113-710 [1]).

traffic control: The set of actions taken by the network in all relevant network elements to avoid *congestion* conditions (ITU-T Recommendation I.113-701 [1]).

traffic descriptor: The definition of the characteristic of the traffic that any given requested *connection* may offer (ITU-T Recommendation I.113-707 [1]).

traffic parameter: A specification of a particular traffic aspect of an ATM connection.

traffic routeing: The establishment of a successful connection between any two exchanges or connectionless servers in the network.

traffic shaping: A mechanism that may alter the pattern of an ATM stream of *cells* on a VPC or a VCC to achieve desired modification of traffic characteristics, maintaining cell sequence integrity of the connection.

transfer mode: Mechanism for transmission, multiplexing and switching in a telecommunications network (ITU-T Recommendation I.113-201 modified [1]).

transit delay: The time difference between the instant at which the first bit of the *address* field of a *frame* crosses one designated boundary, and the instant at which the last bit of the closing flag of the *frame* crosses a second designated boundary (ITU-T Recommendation I.113-801 [1]).

transmission medium: The type of physical means to transmit data (ITU-T Recommendation I.374 [3]).

transmission path level: Extends between network elements assembling/disassembling the payload of a transmission system and associating it with its OAM functions (ITU-T Recommendation I.113-512 [1]).

two-party call: A call in which exactly two users are involved.

unassigned cell (ATM layer): ATM layer cell which is not an assigned cell.

Usage Parameter Control (UPC): The set of actions taken by the network to monitor and control traffic at the User Network Interface, to protect network resources from malicious as well as unintentional misbehaviour by detecting violations of negotiated parameters and taking appropriate actions (ITU-T Recommendation I.113-705 [1]).

user determined user busy: Refers to the case where the user chooses to indicate the busy condition. Busy conditions are described in ITU-T Recommendation I.221 [20] and ETS 300 780 [14].

User Network Interface (UNI): The interface at which a customer equipment is interconnected to a *broadband* network. It is related to one or more physical interfaces at the reference points T_B, S_B, S_B/T_B.

user: Entity which actually uses the service (ETS 300 780 [14]).

valid cell: A *cell* where the header is declared by the header error control process to be free of errors (ITU-T Recommendation I.113-318 [1]).

Variable Bit Rate (VBR) service: A type of telecommunication service characterized by a service bit rate specified by statistically expressed parameters which allow the bit rate to vary within defined limits (ITU-T Recommendation I.113-104 [1]).

VC connection: A concatenation of *virtual channel links* that extends between two points where the adaptation layer is accessed (ITU-T Recommendation I.113-403 [1]).

VC cross connect: A network element which connects *VC links*; it terminate *VPC*s and translates *VCI* values and is directed by Management Plane functions (ITU-T Recommendation I.113-519 [1]).

VC level: Extends between network elements performing *virtual channel connection* termination functions, and it is shown extending through one or more *virtual path connections* (ITU-T Recommendation I.113-516 [1]).

VC link: A mean of unidirectional transport of *ATM cells* between a point where a *virtual channel identifier* value is assigned and the point where that value is translated or removed (ITU-T Recommendation I.113-402 [1]).

VC switch: A network element which connects *VC links*; it terminates *VPC*s and it translates *VCI* values. It is directed by control plane functions (ITU-T Recommendation I.113-520 [1]).

videomessaging: A *messaging service* for the transfer of moving pictures with or without other information (ITU-T Recommendation I.113-116 [1]).

Virtual Channel (VC): A concept used to describe unidirectional transport of ATM *cells* associated by a common unique identifier value (ITU-T Recommendation I.113-401 [1]).

Virtual Channel Identifier (VCI): Identifies a particular *VC* link for a given Virtual Path Connection (VPC).

Virtual Path (VP): A concept used to describe unidirectional transport of ATM *cells* belonging to *virtual channels* that are associated by a common identifier value (ITU-T Recommendation I.113-404 [1]).

Virtual Path Connection (VPC): A concatenation of *virtual path links* that extends between the point where the *virtual channel* identifier values are assigned and the point where those values are translated or removed (ITU-T Recommendation I.113-406 [1]).

Virtual Path Identifier (VPI): Identifies a group of VC links, at a given reference point, that share the same VPC.

VP cross connect: A network element which connects VP links; it translates VPI values and is directed by management plane function (ITU-T Recommendation I.113-517 [1]).

VP level: Extends between network elements performing *virtual path connection* termination functions, and it is shown extending through one or more *virtual path connections* (ITU-T Recommendation I.113-515 [1]).

VP link: The group of *virtual channel links*, identified by a common value of the *virtual path* identifier, between the point where the VPI value is assigned and the point where the VPI value is translated or removed (ITU-T Recommendation I.113 [1]).

VP switch: A network element which connects VP links; it translate VPI values and is directed by Control Plane functions (ITU-T Recommendation I.113-518 [1]).

VP-VC cross connect: A network element that may act as VC cross-connect and/or and VP cross-connect (ITU-T Recommendation I.113-521 [1]).

VP-VC switch: A network element that may act as VC switch and/or VP switch (ITU-T Recommendation I.113-522 [1]).

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5 **Abbreviations**

AAL ATM Adaptation Layer **AAL-IDU AAL Interface Data Unit**

AAL-PCI AAL Protocol Control Information

AAL-SDU AAL Service Data Unit

ATM Access Termination Functions AATF

ABR Available Bit Rate **ABT ATM Block Transfer**

ACE Access Connection Element **ACF ATM Control Functions**

Advanced Communications Technologies and Services **ACTS**

ADSL Asymmetric Digital Subscriber Line Authority and Format Identifier AFI **AIS** Alarm Indication Signal

ΑL Access Link AL Alignment

AMF ATM Mapping Functions

AMIMF ATM based MSS Interconnection Management Functions

ANTF ATM Network Termination Functions

Advice Of Charge AOC

ATAF ATM Transit Access Functions ATD Asynchronous Time Division **Access Termination Functions ATF ATM** Asynchronous Transfer Mode **ATMNE ATM Network Element**

ATM Service Data Unit ATM-SDU ΑU Administrative Unit

ATM-layer-user-to-ATM-layer-user **AUU**

BAsize Buffer Allocation size Bearer Control BC **BCD** Binary Coded Decimal

BCDBS

Broadband Connectionless Data Bearer Service Broadband Connection Oriented Bearer Service BCOBS

BER Bit Error Ratio BIP Bit Interleaved Parity

Broadband Integrated Services Digital Network **B-ISDN**

Private Branch Exchange for B-ISDN **B-ISPBX**

B-ISUP B-ISDN User Part BM**Business Management**

B-NT Network Termination for B-ISDN Network Termination 1 for B-ISDN B-NT1 B-NT2 Network Termination 2 for B-ISDN

BOM Beginning of Message B-TA Terminal Adaptor for B-ISDN

Beginning Tag Btaq

Terminal Equipment for B-ISDN **B-TE**

Customer Access CA

CAC Connection Admission Control CAD Computer Aided Design CAM Computer Aided Manufacturing

CAMC Customer Access Maintenance Centre

CATV Community Antenna TeleVision

Connectionless Broadband Data Service **CBDS**

Constant Bit Rate CBR CC Call Control Country Code CC CC Cross Connect

CCITT Comité Consultatif International Télégraphique et Téléphonique

CDV Cell Delay Variation

CDVT Cell Delay Variation Tolerance CE Congestion Experienced
CE Connection Element
CE Connection Endpoint
CEC Cell Error Count

CEI Connection Endpoint Identifier

CEP Connection End Point
CEQ Customer Equipment
CES Connection Endpoint Suffix
CF Connection Functions
CI Customer Installation
CIB CRC Indication Bit

CIF Common Intermediate Format

CIME Customer Installation Maintenance Entities

CL Connectionless
CLAI CL Access Interface

CLATF CL Access Termination Functions

CLCPCL Convergence ProtocolCLHFCL Handling FunctionsCLLConnectionLess Layer

CLLR&R ConnectionLess Layer Routing & Relaying

CLMF CL Mapping Functions
CLNAP CL Network Access Protocol
CLNI CL Network Interface

CLNIP CL Network Interface Protocol
CLNTF CL Network Termination Functions

CLP Cell Loss Priority
CLR Cell Loss Ratio
CLS Connectionless Server

CLSF Connectionless Service Function
CME Connection Management Entity

CMI Coded Mark Inversion

C-n
 CN
 Customer Network
 CO
 Connection Oriented
 COH
 Connection Overhead
 COM
 Continuation of Message

CON Concentrator

CONS Connection Oriented Network Service
COTS Connection Oriented Transport Service

CP Control Plane

CP-AAL Common Part of AAL type 3/4 **CPCS** Common Part Convergence Sublayer

CPCS-PDU CPCS Protocol Data Unit CPCS-SDU CPCS Service Data Unit

CPCS-UU Common Part Convergence Sublayer User-User

CPE Customer Premises Equipment

CPI Common Part Indicator
CPN Customer Premises Network
CRC Cyclic Redundancy Check
CREn Cell transfer Reference Event n
CRF Connection Related Function

CRF(VC) Virtual Channel Connection Related Function CRF(VP) Virtual Path Connection Related Function

CS Convergence Sublayer

CSDN Circuit Switched Data Network
CSI Convergence Sublayer Indication

CS-PDU Convergence Sublayer Protocol Data Unit

CTF Control Functions

CTP Connection Termination Point

DA Destination AddressDAB Digital Audio Broadcast

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DBR
Deterministic Bit Rate
DBS
Direct Broadcast Satellite
DIS
Draft International Standard
DLCI
Data Link Connection Identifier
DNIC
Data Network Identification Code
DPL
Primary Link for Distribution Services

DQDB Distributed Queue Dual Bus

DS Digital Section

DSAP Destination Service Access Point

DSP Domain Specific Part

DSS Distributed Sample Scrambler
DVB Digital Video Broadcast

EBCN Explicit Backward Congestion Notification

EBTN European Backbone Telecommunication Network

EC Error Correction
ED Error Detection
EDC Error Detection Code

EFCI Explicit Forward Connection Indication
EFCN Explicit Forward Congestion Notification
EII European Information Infrastructure

EOM Element Management EOM End of Message Exchange Termination

ETag End Tag

ETR ETSI Technical Report

European Telecommunication Standard

EURESCOM European Institute for Research and Strategic Studies in Europe

F1 ... F5 OAM flows 1 ... 5

FAM Functional Architecture Model
FCS Frame Check Sequence
FDDI Fibre Distributed Data Interface

FEBE Far End Block Error
FEC Forward Error Correction
FERF Far End Receive Failure

FIFO First In First Out
FITL Fiber In The Loop
FM Fault Management

FMBS Frame Mode Bearer Service

FR Frame Relay

FRM Fast Resource Management
FRP Fast Reservation Protocol
FTP File Transfer Protocol, (Internet).

GA Group Address

GAHF Group Address Handling Functions

GAP Group Addressed PDU

GBSVC General Broadcast Signalling Virtual Channel
GCRA Generic Cell Rate monitoring Algorithm

GDMO Guidelines for the Definition of Managed Objects

GFC Generic Flow Control

GII Global Information Infrastructure
GME Global Management Entity
HDLC High Level Data Link Control
HDSL High bit rate Digital Subscriber Line

HDTV High Definition Television
HE Header Extension
HEC Header Error Control
HEL Header Extension Length
HLF Higher Layer Functions

HLPI Higher Layer Protocol Identifier

HTML Hypertext Markup Language, (Internet) **HTTP** Hypertext Transport Protocol, (Internet)

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IBC Integrated Broadband Communication

ICI Inter Carrier Interface Interface Control Information ICI **ICIP** Inter-Carrier Interface Protocol IDI Initial Domain Identifier **IDP** Internet Datagram Protocol

IDU Interface Data Unit

IEC International Electrotechnical Commission **IEEE** Institute of Electrical and Electronic Engineers Internet Engineering Task Force, (Internet) **IETF**

Interim Local Management Interface, (ATM Forum) ILMI

IMAI Interworking MAN ATM Interface Interworking Management Functions IMF **IMPDU** Initial MAC Protocol Data Unit Inter Network Interface INI

IP Internet Protocol

IPL Primary Link for Interactive Services

IRP Internal Reference Point IS International Standard

ISDN Integrated Services Digital Network

ISO International Organisation for Standardisation

ISUP ISDN Signalling User Part

Information Type IT

ITU International Telecommunication Union

ITU-T International Telecommunication Union Telecommunication

IWF Interworking Function IWU Interworking Unit

JPEG Joint Picture Experts Group

LAN Local Area Network

LAPD Link Access Procedure on the D-channel

LCD Loss of Cell Delineation

LE Layer Entity LE Local Exchange **LEX** Local Exchange

Local Functions Capabilities **LFC**

LI Length Indicator LI Link Identifier LLC Logical Link Control

Loopback Localisation Identifier field, (OAM working group) **LLID**

LME Layer Management Entity Loss Of Cell delineation LOC LOC Loss of Continuity check

LOM Loss Of OAM LOP Loss Of Pointer Loss Of Signal LOS Least Significant Bit LSB Large Scale Integration LSI LT Line Termination MA Medium Adaptor MAC Media Access Control

MAC Multiplexed Analogue Components (a TV standard)

MAI MSS ATM Interface Metropolitan Area Network MAN **MBS** Monitoring Block Size **MCD** Maintenance Cell Description

ME Mapping Entity

Management Information Base **MIB** Multiplexing Identification MID MIM Management Information Model

Multipurpose Internet Mail Extensions, (Internet) MIME

Maximum Information Rate MIR

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MMC Management Centre

MMF MSS Management Functions
MoU Memorandum of Understanding

MP Measurement Point

MPEG Moving Pictures Expert Group

MPI Measurement Point associated with international Interface

MS Multiplex Section
MSB Most Significant Bit

MSN Monitoring cell Sequence Number
MSP Maintenance Service Provider
MSS MAN Switching System

MSVC Meta Signalling Virtual Channel

MTP Message Transfer Part

MUX Multiplexer
NA Network Aspects

NDC National Destination Code

NE Network Element

NEF Network Element Function
NIC Number of Included Cells

N-ISDN Narrowband Integrated Services Digital Network

Network Management NM **NMB Number of Monitored Blocks NMC Network Management Centre Network Node Interface** NNI NP **Network Performance NPC** Network Parameter Control **Network Resource Management** NRM **Network Service Access Point NSAP** NSN National Significant number **Network Termination** NT

NTF Network Termination Functions
NTN Network Terminal Number

NTSC National Television System Committee modulation system (a TV standard)

NVOD Near Video On Demand

OAM Operation Administration and Maintenance

OAM Operation and Maintenance

OAMC Operation and Maintenance Centre

OAN Optical Access Network

OFDM Optical Frequency Division Multiplex

OS Operating System

OSF Operating System Functions
OSI Open Systems Interconnection
OTDM Optical Time Division Multiplex
OUI Organisationally Unique Identifier

PAD Padding

PAL Phase Alternating Line modulation system (a TV standard)

PAS Publicly Available Specifications

PC Priority Control

PCF Protocol Conversion Functions
PCI Protocol Control Information
PCM Pulse Code Modulation

PCR Peak Cell Rate

PCS Personal Communication Services
PDH Plesiochronous Digital Hierarchy

PDN Packet Data Network
PDU Protocol Data Unit
PEI Peak Emission Interval
PEN Pan European Network

PHY Physical Layer
PI Protocol Identifier

PICS Protocol Implementation Conformance Statement

PID Protocol Identifier PL Pad Length PLPhysical Layer **PLK** Primary link

PL-OAM Physical Layer Operation and Maintenance (cell)

PM Performance Management PM Performance Monitoring

PM Physical Medium **POH** Path Overhead

Passive Optical Network **PON POTS** Plain Old Telephone Service **PPP** Point to Point Protocol. (Internet)

PDU Per Time Unit **PPTU** PRM Protocol Reference Model Packet Switched Data Network **PSDN**

Physical layer OAM Sequence Number **PSN PSTN** Public Switched Telephone Network **PSVC** Point-to-point Signalling Virtual Channel

PT Payload Type

PTI Payload Type Identifier **PTN** Public Telephone Network

PTR Pointer

PVC Permanent Virtual Channel Quadrature Amplitude Modulation QAM **QCIF** Quarter Common Intermediate Format

QOS Quality of Service TMN Interface Q-type

RACE Research and development in Advanced Communications technologies for

RAI Remote Alarm Indication RC Resource Control **RDI** Remote Defect Indicator

RES Reserved (field)

Remote Frame Handler **RFH**

RG Regenerator

Resource Management (cell) RM

Recognised Private Operating Agency **RPOA**

RS Regenerator Section

Reed-Solomon burst error correcting Code **RSC**

Reed-Solomon Erasure code **RSE**

Residual Time Stamp **RTS**

RU Remote Unit SA Source Address SAAL Signalling AAL SAP Service Access Point

SAPI Service Access Point Identifier

Segmentation and Reassembly (sublayer) SAR

SAR-PDU SAR Protocol Data Unit SAR-SDU SAR Service Data Unit SBR Statistical Bit Rate

SBSVC Selective Broadcast Signalling Virtual Channel

SC Sequence Count SC Service Component SCE Service Control Element **SCF** Service Control Functions **SCR** Sustainable Cell Rate

SDH Synchronous Digital Hierarchy

SDL Specification and Description Language

SDT Structured Data Transfer

SECAM

SDU Service Data Unit

Sequential Couleur A Mémoire modulation system (a TV standard) **SECB** Severely Errored Cell Block

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SES Severely Errored Second

SFET Synchronous Frequency Encoding Technique

SIR Sustained Information Rate

SLE Sub-Layer Entity

SLIP Serial Line Interface Protocol, (Internet)

SLP Submitted Loss Priority
SM Service Management

SMDSSwitched Multimegabit Data ServiceSMTPSimple Mail Transfer Protocol, (Internet)SMTPSimple Mail Transfer Protocol, (Internet)

SN Sequence Number SN Subscriber Number

SNAP Sub Network Access Protocol

SNMP Simple Network Management Protocol, (Internet)

SNP Sequence Number Protection **SNPA** Sub-Network Point of Attachment

SOH Section Overhead

SONET Synchronous Optical NETwork

SP Service Provider
SPL Service Provider Link

SPN Subscriber Premises Network
SRTS Synchronous Residual Time Stamp
SS7 Signalling System number 7
SSAP Source Service Access Point

SSCF Service Specific Coordination Function

SSCOP Service Specific Connection Oriented Protocol
SSCS Service Specific Convergence Sublayer

SSCS-PDUSSCS Protocol Data UnitSSFService Switching FunctionsSSMSingle Segment MessageSSNSwitching or Signalling Node

ST Segment Type

STM Synchronous Transfer Mode
STM-n Synchronous Transport Module - n

SVC Signalling Virtual Channel
SVC Switched Virtual Channel

TA Terminal Adaptor

TAPI Telephony Application Programming Interface, (Microsoft and Intel)

TAT Transit Access Termination
TB B-ISDN T-type interface
T_B T reference point in B-ISDN

TC Transmission Convergence sublayer

TCE Transit Connection Element

TCP/IP Transmission Control Protocol/Internet Protocol, (Internet)

TCRF Transit Connection Related Function

TE Terminal Equipment

TEI Terminal Endpoint Identifier Telecommunications

TEX Transit EXchange

TMN Telecommunication Management Network

TP Termination Point

TPE Transmission Path Endpoint

TS Time Slot
TS Time Stamp
TS Traffic Shaping

TTP Trail Termination Point
TUC Total User Cell number
UMI User MAN Interface
UNI User Network Interface

UP User Plane

UPC Usage Parameter Control

VBD Voice Band Data

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VBR Variable Bit Rate VC Virtual Channel

VC-AIS Alarm Indication Signal for VC VCC Virtual Channel Connection

VCCE Virtual Channel Connection Endpoint
VC-FERF Far End Receive Failure for VC
VCI Virtual Channel Identifier

VCL Virtual Channel Link
VC-n Virtual Container - n
VCS Video Conference Service

VDSL Very high speed Digital Subsciber Line **VHDSL** Very High bit rate Digital Subscriber Line

VLSI Very Large Scale Integration

VOD Video on Demand VP Virtual Path

VP-AIS Alarm Indication Signal for VP VPC Virtual Path Connection

VPCE Virtual Path Connection Endpoint VP-FERF Far End Receive Failure for VP

VPI Virtual Path Identifier
VPL Virtual Path Link
VPLC VP Link Connection
VPN Virtual Private Network
VPNC VP Network Connection
VPSC VP Sub network Connection

VPXC VP Cross Connect WAN Wide Area Network

WTSC World Telecommunication Standardization Conference

WWW World Wide Web, (Internet)

X-type TMN interface

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History

Document history		
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