# WEBSTER'S NEW WORLD TELECOM DICTIONARY

A comprehensive reference for telecommunications terminology

More than 4,600 telecommunications terms and acronyms defined and explained Clear, up-to-date coverage of recent data communications terminology, including VoIP, SANs, 802.11n, and Bluetooth

#### RAY HORAK

### WE DEFINE YOUR WORLD®

**R M** Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

DOCKET

Δ

COBBOB ( TTO)



YMAX CORPORATION v. FOCAL IP. LLC

Find authenticated court documents without watermarks at docketalarm.com.

DOCKET

LARM

Α

#### Webster's New World® Telecom Dictionary

Published by Wiley Publishing, Inc. 10475 Crosspoint Boulevard Indianapolis, IN 46256 www.wiley.com

Copyright © 2008 by Wiley Publishing, Inc., Indianapolis, Indiana Published simultaneously in Canada

ISBN: 978-0-471-77457-0 Manufactured in the United States of America

10 9 8 7 6 5 4 3 2 1 Library of Congress Cataloging-in-Publication Data

Horak, Ray. Webster's New World telecom dictionary / Ray Horak.

p. cm. ISBN 978-0-471-77457-0 (pbk.) 1. Telecommunication—Dictionaries. I. Title. TK5102.H65 2007 621.38203—dc22

#### 2007024232

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, micchanical, photocopying, recording, seanning or otherwise, except as permitted under Sections 170 or 108 of the 1796 United States Copying Act, without either the prior witten permission of the Publisher, or authorization through payment of the appropriate per-copy fee to the Copyinght Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, (978) 750-8400, fax (978) 646-8600. Requests to the Publisher for permission should be addressed to the Legal Department, Wiley Publishing, Inc., 10475 Crosspoint Blvd., Indianapolis, IN 46236, (317) 572-3447, fax (317) 572-4355, or online at http://www.wiley.com/go/permissions.

Import www.wiejcomingor permission. Limit of Linkinfy/Dischimer of Warranty: The publisher and the author make no representations or warranties with respect to the accuracy or completeness of the contents of this work and specifically disclaim all warranties, including without limitation warranties of fitness for a particular purpose. No warranty may be created or extended by sales or promotional materials. The advice and strategies contained herein may not be suitable for every situation. This work is sold with the understanding that the publisher is not engaged in rendering legal, accounting, or other professional services. If professional assistance is required, the services of a competent professional persons should be sought. Neither the publisher nor the author shall be liable for damages arising herefrom. The fact that an organization or Website is referred to in this work as a citation and/or a potential source of further information does not mean that the author or the publisher endores the information of Website may provide or recommendations ir may make. Further, readers should be aware that Internet Websites listed in this work may have changed or disappeared between when this work was written and when it is read.

For general information on our other products and services please contact our Customer Care Department within the United States at (800) 762-2974, outside the United States at (317) 572-3993 or fax (317) 572-4002.

Trademarks: Wiley, the Wiley logo, Webster's New World, the Webster's New World logo, We Define Your World, and related trade dress are trademarks or registered trademarks of John Wiley & Sons, Inc. and/or its affiliates, in the United States and other countries, and may not be used without written permission. All other trademarks are the property of their respective owners. Wiley Publishing, Inc., is not associated with any product or vendor mentioned in this book. Wiley also publishes its books in a variety of electronic formats. Some content that appears in print may not be available in electronic books.

# DOCKET ALARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>.



#### (Cell Loss Priority)

102

CLP (Cell Loss Priority) In asynchronous transfer mode (ATM), one bit in the cell header that identifies the priority level of the cell to determine the eligibility of that cell for discard in the event of network congestion. Applications such as LAN-to-LAN traffic and e-mail are tolerant of loss. Applications such as real-time voice and video are highly intolerant of loss. See also ATM, cell, congettion, e-mail, header, LAN, real-time, traffic, video, and woize.

CLR (Cell Loss Ratio) In asynchronous transfer mode (ATM), a dependability parameter expressed as the ratio of the number of lost cells to the number of transmitted cells. Cell loss can occur for reasons that include misdirection of cells by a switch, a congestion problem causing a discard in consideration of buffer capacity, a station exceeding its peak cell rate (PCR) resulting in cell discard, or a cell that exceeds the maximum cell transfer delay (CTD) and arrives too late for processing. CLR applies to all service categories except unspecified bit rate (UBR). See also ATM, buffer, cell, congestion, CTD, PCR, and UBR.

cm (centimeter) One one-hundredth ( $10^{-2}$ , or 100) of a meter. See also meter.

#### CM (Cable Modem) See cable modem.

CMR (Cell Misinsertion Rate) In asynchronous transfer mode (ATM), a dependability parameter expressed as the number of cells received over a time interval at a destination endpoint that were not transmitted originally by the source endpoint of the virtual circuit (VC). CMR is expressed as a tate, rather than as a tatio, because the number of misinserted cells is beyond the control of the originating and destination endpoints. Although the header checksum is designed to prevent misinsertion, CMR can result from the corruption of a cell header, which would cause a cell to be misinserted into the cell stream of another source-destination pair of end points. See also *ATM*, *cell*, *checksum*, *endpoint*, *header*, and *VC*.

Automet source-testimation pair to time points see also Firlin (en, intersam, empoint, neutrin, and VCC) CMTS (Cable Modern Termination System) The head-end portion of a CATV network designed to support high speed data, as described in the Data over Cable Service Interface Specification (DOCSIS). Matching DOCSIS cable modems (CMs) in the CMTS and the customer premises support high speed, full duplex (PDX) data communications over a hybrid fiber/coax (HFC) system. The CMTS supports a packet data connection to an IEEE 802.3 10/100-Mbps Ethernet port on a router. In terms of the OSI Reference Model, the system runs the Internet Protocol (P1) at the Network Layer in Ethernet frames at the Data Link Layer. Associated with the CMTS are various servers for security, address translation, data caching, and video caching. A CMTS can support as many as 2,000 cable modem users on a single 6-MHz channel (8 MHz in Europe), with issues of congestion for shared bandwidth becoming more severe as the number of active users increases. The modem on the customer premises is in the form of a set-top box, which supports traditional coax connections to multiple TV sets and a 10/100BaseT Ethernet connection to a PC or to a hub serving multiple PCS. See also 10BaseT, 100BaseT, 802.3, handwidth, caching, coaxid cable, Data Link Layer, DOCSIS, Ethernet, HFC, IP, Network Layer, optical fiber, OSI Reference Model, server

CO (Central Office) 1. A local telephone company office that provides a central point for the termination of lines and trunks, and where they can be interconnected, i.e., connections can be exchanged. An integral part of the public switched telephone network (PSTN), a CO traditionally houses one or more voice-optimized circuit switches to interconnect subscriber lines within a local area known as the carrier serving area (CSA) and to connect subscriber local loops to network trunks. A contemporary CO may also house a variety of voice and data switches, multiplexers, concentrators, and so on. Synonymous with *are trul affice exchange* (COE), *Class 5 affice, and office, and local exchange.* See also CSA and PSTN. 2. The CO switch, rather than the building that houses it. Synonymous with *Class 5 switch, edge switch, edg office, and local exchange.* 

Coarse Wavelength Division Multiplexing (CWDM) See CWDM.

coax (coaxial cable) See coaxial cable.

DOCKET

Δ

### YMAX CORPORATION v. FOCAL IP, LLC

Find authenticated court documents without watermarks at docketalarm.com.

#### **RPR** (Resilient Packet Ring)

the Application Layer. Routers can be capable of performing the gateway functions associated with protocol conversions such as code conversions or those necessary to connect dissimilar networks, such as circuitswitched and packet-switched networks. See also *Data Link Layer, gateway, hop, Network Layer, OSI Reference Model, packet, protocol,* and *switch.* 

routine Synonymous with procedure. A program module, or section of code, that executes a specific task.

routing Referring to the process of deciding where to forward packets based on a view of the network as a whole. See also *router*.

routing by rumor See distance-vector routing protocol.

Routing Information Protocol (RIP) See RIP.

**RPELPC** (Regular Pulse Excitation Linear Predictive Coding) A speech encoding technique that uses regular pulses in an excitation frame and a long-term predictor, based on long-term correlation of voice samples, to model the speech pitch. RPELPC at 13 kbps is specified for use in cellular radio networks conforming to the pan-European GSM standard. See also *ellular radio*, *encode*, *frame*, and GSM.

**RPR** (Resilient Packet Ring) The IEEE 802.17 specifications for a medium access control (MAC) layer protocol that uses Ethernet switching and a dual counter-rotating ring topology to optimize the transport of Ethernet/IP packet data traffic over optical fiber rings. RPR is independent of the Physical Layer, it can be implemented over existing SONET/SDH puts a much reduced level of overhead. As RPR is independent of the Physical Layer, it can be implemented over existing SONET/SDH physical rings or can run on a standalone basis. RPR calls for dual counter-rotating local ringlets that interconnect nodes where data traffic is intended to drop. RPR also uses statistical multiplexing, which allows bandwidth to be oversubscribed, while establishing Committed Information Rate (CIR) and peak-rate thresholds per application. The nodes negotiate bandwidth requirements among themselves based on fairness algorithms and in consideration of a classification scheme that recognizes and provides higher priority access to traffic sensitive to latency and jitter while ensuring that best effort traffic, such as Internet traffic, is afforded equal access and a fair share of the remaining bandwidth. RPR supports the following class of service (CoS) levels:

- Class A traffic is intolerant of latency and jitter. RPR addresses Class A traffic through a high CIR
  that ensures the availability of an average level of bandwidth appropriate for high priority traffic such
  as real-time voice and video.
- Class B is more tolerant of latency and jitter. RPR addresses Class B traffic through either a lower CIR
  that ensures the availability of an average amount of bandwidth appropriate for medium priority
  applications that have less stringent QoS requirements, or through an Excess Information Rate (EIR)
  option. In the event of network congestion, Class B traffic is subject to fairness-based flow control.
  Class B is intended for business-class data traffic such as transaction processing.
- Class C traffic is best effort traffic with no latency or jitter requirements and, therefore, is strictly EIR traffic. In the event of network congestion, Class B traffic is subject to fairness-based flow control. Class B traffic includes low priority applications such as consumer-level Internet access.

In the event of a node or link failure, the RPR, protection scheme can restore the network in 50 ms or less, which is the SONET/SDH benchmark. There are two restoral mechanisms: wrapping and steering. The wrap option calls for data to travel around the ring until it reaches the node nearest the break. That node turns the traffic around and sends it in the reverse direction over the counter-rotating ring. The steer option calls for the originating station to exercise sufficient intelligence to avoid the failed ring and place the traffic on the ring that retains continuity. Traffic continuously travels over both fibers of the dual counter-rotating ringlets. See also 802.17, bandwidth, best effort, CIR, CoS, EIR, Ethenet, flow control, IEEE, IP, jitter, latency, MAC, node, optial fiber, overhead, QoS, real-time, ring tapology, SDH, SONET, and STDM.



### YMAX CORPORATION v. FOCAL IP, LLC

Find authenticated court documents without watermarks at docketalarm.com.

DOCKET

421

# DOCKET



# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

# **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## **FINANCIAL INSTITUTIONS**

Litigation and bankruptcy checks for companies and debtors.

## **E-DISCOVERY AND LEGAL VENDORS**

Sync your system to PACER to automate legal marketing.

