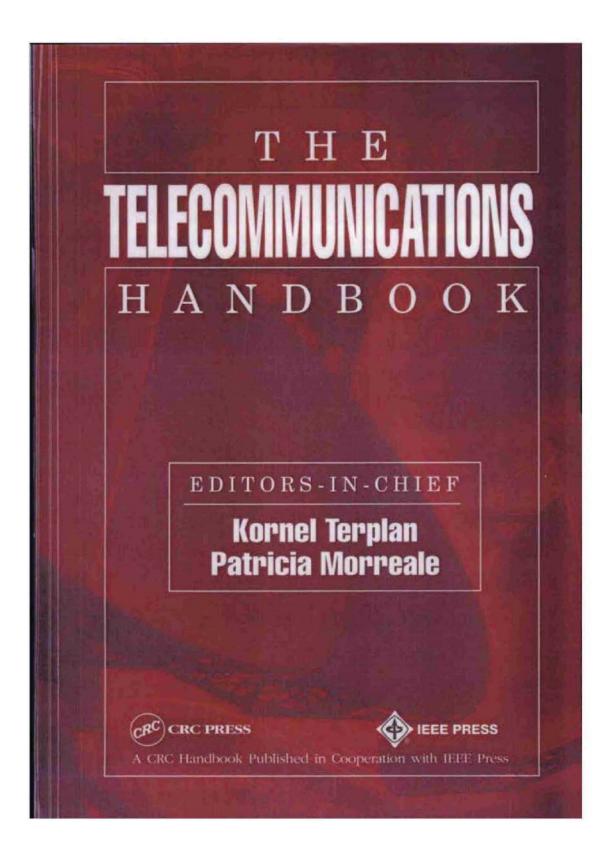
Case 1:20-cv-00034-ADA Document 44-11 Filed 03/20/20 Page 1 of 7

Exhibit 10

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



Find authenticated court documents without watermarks at docketalarm.com.

RM

Δ



EDITORS-IN-CHIEF

Kornel Terplan Patricia Morreale



DOCKE

Δ

RM

Δ



A CRC Handbook Published in Cooperation with IEEE Press



ANCA 3433

Find authenticated court documents without watermarks at docketalarm.com.

Library of Congress Cataloging-in-Publication Data

The telecommunications handbook / edited by Kornel Terplan, Patricia Morreale.

p. cm.
Includes bibliographical references and index.
ISBN 0-8493-3137-4 (hc. : alk. paper)
1. Telecommunication--Handbooks, manuals, etc. I. Terplan, Kornel. II. Morreale, Patricia.
TK5101.T355 1999
384—dc21

99-044580 CIP

This book contains information obtained from authentic and highly regarded sources. Reprinted material is quoted with permission, and sources are indicated. A wide variety of references are listed. Reasonable efforts have been made to publish reliable data and information, but the author and the publisher cannot assume responsibility for the validity of all materials or for the consequences of their use.

Neither this book nor any part may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, microfilming, and recording, or by any information storage or retrieval system, without prior permission in writing from the publisher.

All rights reserved. Authorization to photocopy items for internal or personal use, or the personal or internal use of specific clients, may be granted by CRC Press LLC, provided that \$.50 per page photocopied is paid directly to Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923 USA. The fee code for users of the Transactional Reporting Service is ISBN 0-8493-3137-4/00/\$0.00+\$.50. The fee is subject to change without notice. For organizations that have been granted a photocopy license by the CCC, a separate system of payment has been arranged.

The consent of CRC Press LLC does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific permission must be obtained in writing from CRC Press LLC for such copying. Direct all inquiries to CRC Press LLC, 2000 Corporate Blvd., N.W., Boca Raton, Florida 33431.

Trademark Notice: Product or corporate names may be trademarks or registered trademarks, and are used only for identification and explanation, without intent to infringe.

© 2000 by CRC Press LLC

DOCKET

No claim to original U.S. Government works International Standard Book Number 0-8493-3137-4 Library of Congress Card Number 99-044580 Printed in the United States of America 1 2 3 4 5 6 7 8 9 0 Printed on acid-free paper **Basic Communication Principles**

2.1.6 Techniques

The advanced information processing techniques are playing a major role in the realization of telecommunications services and the underlying network architectures. Among these techniques, we find objectoriented methods, open distributed processing, and the agent technology.

2.1.6.1. Open Distributed Processing

A telecommunications service is a distributed application that runs over the multiple nodes of a telecommunications network. The ODP reference model jointly defined by ISO and ITU-T provides a framework for the design of distributed systems with the introduction of viewpoints. Each viewpoint represents a different abstraction of the original system. Informally, a viewpoint leads to a representation of the system with emphasis on a specific concern. Five viewpoints were identified: enterprise, information, computation, engineering, and technology (Figure 2.6).

The *enterprise* viewpoint is concerned with the overall environment within which an ODP system is to operate. The *information* viewpoint focuses on the information requirements of the system, and deals with information object types, together with their states and permitted state changes. The *computational* viewpoint shows processing functions and data types, abstracting away from the underlying hardware structures via transparency functions. The *engineering* viewpoint establishes transparency services utilizing concepts from operating systems and communications. The *technology* viewpoint is concerned with the realization of an ODP system in terms of specific hardware and software components. ODP has been extensively used for the definition of TINA.²¹

2.1.6.2 Mobile Agents

DOCKET

RM

An agent is a program, which, with a certain degree of autonomy, performs tasks on behalf of a user or an application. An agent may move between network sites and cooperate with other agents to achieve its goals.²²

Agent development finds its roots in two research domains: intelligent agents stemming from artificial intelligence, which studies the capabilities of learning and decision making of cooperative autonomous entities; and mobile code technology that enables programs to migrate from a machine to another, while preserving their execution environment. This latter domain is evolving at a fast pace because of the emergence of languages such as Tcl²³ and Java,²⁴ and of their portable execution environment.

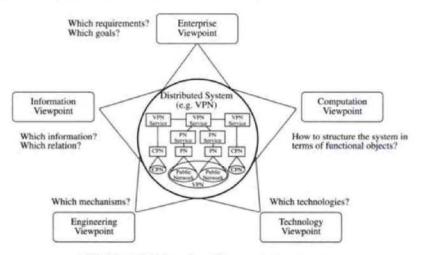


FIGURE 2.6 ODP viewpoints: different projections of a system.

DOCKET A L A R M



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.