RFC: 793

DOCKET

TRANSMISSION CONTROL PROTOCOL

DARPA INTERNET PROGRAM

PROTOCOL SPECIFICATION

September 1981

prepared for

Defense Advanced Research Projects Agency Information Processing Techniques Office 1400 Wilson Boulevard Arlington, Virginia 22209

by

Information Sciences Institute University of Southern California 4676 Admiralty Way Marina del Rey, California 90291

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

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

#### TABLE OF CONTENTS

PR	EFACE iii	-
1. IN	TRODUCTION 1	-
1.1 1.2 1.3 1.4 1.5	Motivation1Scope2About This Document2Interfaces3Operation3	22
2. PH	IILOSOPHY	1
	Elements of the Internetwork System7Model of Operation7The Host Environment8Interfaces9Relation to Other Protocols9Reliable Communication9Connection Establishment and Clearing10Data Communication12Precedence and Security13Robustness Principle13	7 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
3. FU	NCTIONAL SPECIFICATION 15	5
3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9	Header Format15Terminology19Sequence Numbers24Establishing a connection30Closing a Connection37Precedence and Security40Data Communication40Interfaces44Event Processing52	) 1 7 ) ) 1
GLOSSARY		
REFERENCES		

[Page i]

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

September 1981

Transmission Control Protocol

[Page ii]

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

Transmission Control Protocol

#### PREFACE

This document describes the DoD Standard Transmission Control Protocol (TCP). There have been nine earlier editions of the ARPA TCP specification on which this standard is based, and the present text draws heavily from them. There have been many contributors to this work both in terms of concepts and in terms of text. This edition clarifies several details and removes the end-of-letter buffer-size adjustments, and redescribes the letter mechanism as a push function.

Jon Postel

Editor

[Page iii]



# 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.