Xerox Systems Institute
LITERATURE CATALOG

All public standards documents and all technical reports published by Xerox in the area of networking and printing standards are included in this catalog.

Information on how to order these documents is found on page 7.

Document Sets

XNS Architecture Library Set, $250.

This set of documents contains one of each item listed with an asterisk. Currently this includes eighteen different documents. This set is designed to support those who need the complete set of Xerox published standards.

Interpress Architecture Library Set, $100.

This set of documents includes the Character Code Standard, Font Interchange Standard, Interpress 82 Reader's Guide, Interpress Electronic Printing Standard, Introduction to Interpress, Print Service Integration Standard, Raster Encoding Standard, and XNS General Information Manual.

Interpress Language Set, $50.

This set of documents includes the Font Interchange Standard, Interpress 82 Reader's Guide, Interpress Electronic Printing Standard, Introduction to Interpress and XNS General Information Manual.

Xerox System Integration Standards

Authentication Protocol,* May 1986, XNSS 098605, $20.

This document defines the Authentication Protocol used in Xerox Network Systems starting at OS5. This document also serves as a guide for using the Authentication Service

Bulk Data Transfer (Appendix F to Courier),* April 1984, XNSS 038112 (XSIS 038112), Add. 1a, $10.

This document describes a standard that facilitates the construction of distributed systems by providing a single bulk data transfer discipline for an open-ended set of higher level application protocols.

Character Code Standard,* May 1986, XNSS 058605, $25.

This standard specifies the character codes to be used for exchange of text information among Xerox Network System elements and the forms in which sequences of numerical codes can be represented. The primary purpose of this document is to provide an accurate specification of character codes and the encoding of a string of these codes.

Clearinghouse Protocol,* April 1984, XNSS 078404 (XSIS 078404), $20.

This document defines the Clearinghouse directory service protocol used in Xerox Network Systems. This document also serves as a guide for using a Clearinghouse Service. Includes *Clearinghouse Entry Formats.*

Clearinghouse Entry Formats,* April 1984, XNSS 168404 (XSIS 168404), $10.

This document defines Clearinghouse property types and the structure of their entries in terms of Courier data types.

Courier: The Remote Procedure Call Protocol,* December 1981, XNSS 038112 (XSIS 038112), $20.

This document describes Courier, the Remote Procedure Call Protocol—the request/reply discipline used by many application protocols in Xerox Network Systems.

The Ethernet, A Local Area Network: Data Link Layer and Physical Layer Specifications (Blue Book, Version 2.0), November 1982, XNSS 018211 (XSIS 018211), $15.

This document contains the specification of the Ethernet, a local area network developed jointly by Digital Equipment Corporation, Intel Corporation, and Xerox Corporation. The Ethernet specification is the result of an extensive collaborative effort by the three corporations, and several years of work at Xerox on an earlier prototype Ethernet. It is intended as a design reference document, rather than an introduction or tutorial.

Filing Protocol,* May 1986, XNSS 108605, $20.

This document describes a protocol for interaction between clients and file services. It is both a guide for using a File Service, and a specification for the implementation of such a service.

Font Interchange Standard,* December 1985, XNSS 238512, $15.

This document defines a digital representation for interchange of fonts and font metrics.

Internet Transport Protocols,* December 1981, XNSS 028112 (XSIS 028112), $20.

This document describes the family of internetwork packet transport protocols used uniformly across the variety of communications media, digital processors, and office applications in Xerox Network Systems. This document is not a rigorous specification in the formal sense, but describes the protocols and provides the rationale behind many of their features. It also provides the necessary information for designing an implementation.

Interpress Electronic Printing Standard, Version 3.0,* January 1986, XNSS 048601, $25.

The document defines a digital representation for interchange of material to be printed or otherwise imaged.

Print Service Integration Standard,* June 1985, XNSS 198506, $15.

This document describes a set of product-specific standards required for the successful transmission and printing of a document on a family of Xerox electronic printing systems.

Printing Protocol,* April 1984, XNSS 118404 (XSIS 118404), $15.

This document defines the protocol used in sending an Interpress file to an XNS printer, or to inquire about the status of the printer or the status of a print request.

Raster Encoding Standard,* June 1985 , XNSS 178506, $20.

This document defines a digital representation for interchange of all raster images.

Synchronous Point-to-Point Protocol,* December 1984, XNSS 158412, $15.

This documnet describes the protocol for the interconnection of individual communicating entities or data terminal equipment over a data link.

Time Protocol,* April 1984, XNSS 088404 (XSIS 088404), $10.

This document defines the Time Protocol and time standard used in Xerox Network Systems.

Guides and Readers

Interpress 82 Reader's Guide,* April 1984, XSIG 018404, $25.

The Reader's Guide provides explanatory matter on the details of the Interpress 82 Electronic Printing Standard, which are not included in the Standard itself. It was designed as a narrative companion to an earlier version of Interpress. Much, but not all, of the discussion applies to the current version.

Introduction to Interpress,* April 1984, XSIG 038404, $25.

This document provides an introduction to the Interpress standard and gives a number of examples. It is intended to be read in conjunction with the standard.

Xerox Network Systems Architecture General Information Manual,* April 1985, XNSG 068504, No Charge.

This manual describes the architecture of Xerox Network Systems. It provides information on the standards and protocols that comprise the architecture Detail specifications and specific hardware and software products are not described, but a description of the services is provided to illustrate how the protocols are used and how the network architecture integrates products to form systems.

Xerox Network Systems Architecture Introduction to Xerox Network Systems, April 1985, XNSG 058504, No Charge.

This document describes Xerox' approach to integrated office systems. It is a general discussion meant for those who want to know how office people can become more effective and productive by using the Xerox Network Systems. Both visible and invisible aspects of the Xerox System approach are described.

Technical (Blue/White) Reports

To promote a better understanding of the research and development work done by Xerox employees, Xerox distributes technical reports. Typically, these are reprints of speeches or articles prepared by Xerox employees. Single copies of these documents are provided free. For bulk purchases, please contact the Xerox Systems Institute literature desk at (408) 737-4652.

Israel & Linden, **Authentication in Star and Network Systems**, May 1982, OSD-T8201.

This document identifies the added requirements, outlines known solutions for handling some of these concerns, and discusses the need for encryption protocol standards suitable for use in office systems.

Dalal & Oppen, **The Clearinghouse: A Decentralized Agent for Locating Named Objects in a Distributed Environment**, October 1981, OPD-T8103.

Describes the need for and function of the Clearinghouse Directory Service used in Xerox Network Systems.

Crane, Dalal, Redell, Shoch, **Evolution of the Ethernet Local Computer Network**, September 1981, OPD-T8102.

This document describes how the Ethernet local computer network evolved from a research prototype to the specification of a multi-company standard. Ethernet compelled designers to consider numerous trade-offs among alternative implementations and design strategies.

Dalal & Printis, **48-bit Absolute Internet and Ethernet Host Numbers,** July 1981, OPD-T8101.

Details the 48-bit address used by Ethernet.

Dalal, **The Information Outlet: A New Tool for Office Organization**, October 1981, OPD-T8104.

An introductory document that describes how today's office can be better organized by using tools that help in managing information. Distributed office information systems permit an organization to control its conversion to "the office of the future" by reducing the initial purchase cost, and by permitting the system to evolve according to the needs and structure of the organization.

Marzullo, **Maintaining the Time in a Distributed System**, March 1984, OSD-T8401.

This document developes, analyzes, and experiments with algorithms that implement decentralized, self-correcting time services.

Harslem & Linden, Ed., **Office Systems Technology--A Look into the World of the Xerox 8000 Series Products**, January 1984, OSD-R8203A.

A compilation of technical journal articles and conference papers written by the staff of the Systems Development Department of the Office Systems Division.

Halbert, **Programming by Example**, February 1984, OSD-T8402.

Programming by example is a way of programming a software system in its own user interface. The user of the system writes a program by giving an example of what the program should do. The system records the sequence of actions and can perform it again. This report is a discussion of programming by example.

Curry, Baer, Lipkie, Lee, **Traits: An Approach to Multiple-Inheritance Subclassing**, September 1982, OSD-T8202.

This document describes a technique for organizing software which has been used successfully by the Xerox 8010 Star workstation. The traits model of subclassing software generalizes the SIMULA-67 model by permitting multiple inheritance paths. This document describes the relationship of WS software to the traits model.

Becker, **"User-Friendly" Design for Japanese Typing**, August 1983, OSD-T8301.

This document describes the design of a Japanese typing software system (for the FUJI XEROX 8012-J Star workstation) which may be called "user-friendly," i.e., easy for the average Japanese person to learn and use for everyday typing.

How to Order

To order any of the documents contained in this catalog, please complete and return the attached order form.

A discount is available on orders of more than 50 copies of an individual title. Call (408) 737-4652 for more information.

All orders must be accompanied by payment. Payment must be made in U.S. dollars and be drawn on a United States bank. Upon request, pro-forma invoices can be issued in advance of shipment.

All orders are shipped within ten working days of receipt of payment (unless the documents are out of stock). Most orders are shipped by UPS air mail. Be certain to include a street address for delivery.

For more information, call (408) 737-4652.