Programming Announcement

IBM 6580 Displaywriter System
Electronic Document Distribution
licensed program announced

5608-SR8

IBM announces the Electronic Document Distribution licensed program which provides the Displaywriter System with the functions required to perform the following in an IBM SNA/SDLC communications environment:

- Document distribution with remote Displaywriters and certain other IBM office systems within a communication network through the facilities of IBM Distributed Office Support System/370 (DISOSS/370) Version 3
- Access to the IBM DISOSS/370 Version 3 document library services
- Direct exchange of documents with another Displaywriter via SNA telecommunications without the need for host assistance

Highlights

- SNA/SDLC transmission at up to 9600 bps
- Use of Office Systems Architectures (Document Interchange Architecture and Document Content Architecture)
- Interaction with IBM DISOSS/370 Version 3 document distribution and library services
- Direct document exchange with other similarly configured Displaywriters
- Final form document interchange with certain other IBM office systems in an IBM DISOSS/370 network

Description

The Electronic Document Distribution licensed program allows the IBM Displaywriter System to attach to document distribution networks and provides the following functions:

- Distributing and receiving text and records documents through IBM DISOSS/370 (document distribution)
- Filing and retrieving text and records documents in an IBM DISOSS/370 host document library (library services)
- Exchanging text and records documents directly with other IBM Displaywriter systems (document exchange)

Document distribution

Document distribution allows the IBM Displaywriter operator to perform a wide range of distribution activities within an IBM DISOSS/370 Version 3 document distribution network. With document distribution, the IBM Displaywriter becomes a terminal for distributing documents to and obtaining documents from other terminals via the document distribution network. These document distribution capabilities offer significant advantages over traditional mail systems.

In a document distribution network, each user or department is assigned a local address (user ID) which can be up to eight characters long and serve as the address to which documents can be sent. In addition to the address, each user can be assigned his own unique password for security.

Either before or during the actual communication session, the IBM Displaywriter operator can create a queue of commands for distributing and obtaining documents via an IBM host computer with IBM DISOSS/370 Version 3. When the communication session is initiated, these commands are sent to DISOSS to be processed. Documents destined for other network users are queued for distribution to their address destinations, and incoming documents are sent to the local IBM Displaywriter.

Some of the document distribution capabilities are:

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- Distributing documents to one or more specific addresses, to a previously stored distribution list containing one or more addresses, or to a combination of addresses and distribution lists.
- Requesting IBM DISOSS/370 to return confirmation that a document has been distributed.
- Including messages with distributed documents to provide additional information to the recipient(s). These messages can be used to describe any special printing or formatting requirements and for other comments.
- Changing the operator password maintained by DISOSS/370.
- Requesting delivery to the Displaywriter of all documents (or specific documents) queued in IBM DISOSS/370 for selected users. In addition, the user can display a detailed or summarized list of the documents awaiting delivery from IBM DISOSS/370.
- Deleting documents in the IBM DISOSS/370 distribution queue.

Library services

Library services allow the IBM Displaywriter user to file documents electronically in the IBM DISOSS/370 Version 3 host document library and to search the library to locate and retrieve previously stored documents. Parametric searches are performed based on appropriate criteria the operator selects and can include documents stored by other library users. The capabilities provided by the library services function are:

- Filing a document and/or document profile (a description of the document that includes information about the document but not the document itself) in the host document library.
- Searching the host document library for documents meeting user-selectable criteria. The user-selectable criteria are: author, document date, document name, document class, recipients, and keywords.
- Retrieving documents from the host document library.
- Distributing documents stored in the host document library to certain other IBM office systems in the network.
- Deleting documents from the host document library.

Note: The IBM Displaywriter does not support the application processing functions of Document Interchange Architecture. Examples of these are the DISOSS support for adding search terms and printing on host printers.

Document exchange

Document exchange provides the IBM Displaywriter with capabilities for sending and receiving directly to and from other IBM Displaywriters. Both Displaywriters must have the Electronic Document Distribution licensed program installed.

In the document exchange function, each IBM Displaywriter system can optionally be assigned a name (up to 8 characters long). These optional names, called session IDs, serve as the addresses of the remote IBM Displaywriters designated to communicate with the local IBM Displaywriter. When a document is being distributed, the operator selects the session IDs designated to receive the document. During the actual communication session, only the designated remote devices will receive the document. Any documents queued to other session IDs will be sent only when the communication session is

established with the correct remote IBM Displaywriter. If a session ID is not specified for a document, then all locations will receive that document.

The capabilities offered by the document exchange function are:

- Sending documents to operator-selectable recipient(s).
- Sending a message of up to 80 characters to the remote IBM Displaywriter. This message appears on the remote IBM Displaywriter's display station when the communication session is active and can provide a form of interactive communication between operators.
- Receiving documents and messages sent from other IBM Displaywriters.
- Providing backup capability for IBM DISOSS/370 network distribution.

Architecture

The IBM Displaywriter System, using the Electronic Document Distribution licensed program, utilizes Systems Network Architecture and Office System Architectures.

Systems Network Architecture (SNA) - The IBM Displaywriter System, using the Electronic Document Distribution licensed program, conforms to the Advanced Program to Program Communication (APPC) protocol of SNA.

Office Systems Architectures - The following Office Systems Architectures are supported by Displaywriter.

- Document Interchange Architecture (DIA) - This architecture provides the framework for communicating commands in a document distribution network. The document distribution and library services functional subsets of DIA are supported between IBM DISOSS/370 and Displaywriter. The document exchange function set of DIA is supported between Displaywriters.

- Document Content Architecture (DCA) - Displaywriter supports sending and receiving the final form and revisable form data streams. The final form (L2DCA) data stream is designed to provide print image fidelity and integrity in a document distribution network. With this data stream many commands characteristic of word processing systems (e.g., margin text, footnote, and auto-outline instructions) are resolved prior to transmission. The revisable form (L3DCA) data stream contains text formatting commands that support revision of text at a compatible recipient device.

Refer to the Systems and Architecture Marketing Announcement dated November 18, 1982 and IBM publication Information Interchange Architecture Concepts (GC23-0765, planned availability November 18, 1983) for further information on Office Systems Architectures.

Personalization

The tailoring of the Electronic Document Distribution licensed program to meet specific communication needs is called personalization. All personalization is performed through menus. The modem and line options selected are stored as a part of the program diskette and will not require future operator intervention unless the modem or line is changed. In addition, the various operating options available to conform to a remote communication device

are also defined through menu selection and retained on the program diskette.

Specifying operating options (personalization) is a one-time task; therefore, subsequent communication sessions simply require recalling the stored profiles. These profiles are a key to the simplicity of operation of IBM Displaywriter System communication. Up to eight operational profiles can be defined for Electronic Document Distribution. These profiles are used to define the functions required (document distribution, library services, document exchange) as well as other specific tailoring requirements.

Communication characteristics: The IBM Displaywriter System, with the Electronic Document Distribution licensed program, provides the ability to communicate at a range of speeds depending on the facility and modem. Either point-to-point, switched communication at speed from 1200 to 4800 bps or multi-point, nonswitched communication at speeds from 1200 to 9600 bps can be utilized.

Security, auditability, and control: User management is responsible for evaluating, selecting, applying, and implementing security and auditability features and for the appropriate administrative and application controls. For applications in which sensitive data is sent over external communication facilities, user management may wish to use a data encryption device (such as IBM 3845 or 3846).

Planned availability: The initial availability of the Displaywriter Electronic Document Distribution (EDD) program will include both the document distribution and document exchange functions. When the library services function is available, a new program diskette will be distributed to all program users at no additional charge.

	Document Distribution and Document Exchange	Library Services
English only	June 1983	December 1983
Spanish for Puerto Rico	September 1983	March 1984

Specified operating environment

Hardware requirements: The IBM Displaywriter Electronic Document Distribution licensed program is designed to operate with the following configurations of IBM Displaywriter System components:

- IBM 6580 Display Station with at least 320K memory.
- IBM 6360 Diskette Unit.
- Communications adapter (feature code 3704, 3705, or 3707).
- IBM 5218 or IBM 5228 Printwheel Printers, or the IBM 5215 Selectric® Element Printer. (Use of a printer is optional.)

The customer is responsible for providing modems (such as the IBM 3863, 3864, 3865, or equivalent) and other communications facilities.

Software requirements: The Electronic Document Distribution licensed program has been designed to operate on the Displaywriter using the IBM Displaywriter System Textpack 4 (5608-TR4) or Textpack 6 (5608-TR6).

The Electronic Document Distribution program diskette can be combined onto a single 2D diskette with the Textpack 4 program diskettes. However, with Textpack 6, it may be necessary to omit the Electronic Spelling Dictionary diskette (Textpack 6, Volume 4) in order to combine the Electronic Document Distribution and the other three Textpack 6 program diskettes onto a single 2D diskette.

Network requirements: A suitably configured and programmed IBM System/370 computer with IBM DISOSS/370 Version 3 provides support for the Displaywriter. Refer to the Programming Announcement dated November 18, 1982 for details of the IBM DISOSS/370 Version 3 operating environment.

Network interchange considerations:

The following IBM office systems can attach to IBM DISOSS/370 Version 3:

- IBM Displaywriter with the Electronic Document Distribution licensed program
- IBM 8100 Information System with Distributed Office Support Function (DOSF) and DISOSS/8100
- IBM Scanmaster I
- IBM 5520 Administrative System with the Administrative Processing Program Release 2

The following describes the potential relationship of the IBM Displaywriter System with the above systems through IBM DISOSS/370 Version 3. The IBM Displaywriter System Electronic Document Distribution Compatibility Guide (G544-2185, planned availability April 1983) will provide a detailed description of Displaywriter compatibility with other devices through DISOSS/370.

IBM Displaywriter - The IBM Displaywriter System, using the Electronic Document Distribution licensed program, can send and receive final form (L2DCA), revisable form (L3DCA), and records documents through DISOSS/370 document library services and document distribution services.

Displaywriter will receive final form documents and store them on diskette. Subsequently, the documents can be printed or viewed on the display. In addition, if minor revisions are required, final form documents can be converted to Displaywriter internal editable form. Because many of the word processing commands, such as margin text, are resolved in final form documents, repagination of a converted document may not have satisfactory results and other revisions may be cumbersome.

Revisable form documents are converted to Displaywriter internal editable form and stored on diskette when received by Displaywriter. Subsequently, the documents can be viewed on the display, edited with similar ease and facility to that possessed by the originator, and repaginated.

Records documents transferred between Displaywriters through DISOSS/370 can be processed by the Reportpack licensed program at the receiving Displaywriter.

IBM 8100/DOSF - Both IBM 8100/DOSF and Displaywriter systems have the ability to utilize both the document distribution services and document library services functions of IBM DISOSS/370 Version 3. When the IBM 8100/DOSF system files or distributes a document through IBM DISOSS/370, the IBM 8100/DOSF internal data stream is sent. If the document is subsequently routed to a Displaywriter, IBM DISOSS/370 will transform the document to the final form data stream. The document can then be printed,

viewed, or converted for minor revisions on the Displaywriter. The Displaywriter can file or distribute final form documents through IBM DISOSS/370 for subsequent printing on an IBM 8100/DOSF Release 3 system with the 5210 E1 or E2 printers (with EC996869). Thus, through IBM DISOSS/370, the IBM Displaywriter can interchange final form documents with IBM 8100/DOSF systems with 5210 printers.

IBM Scanmaster I - An IBM Scanmaster I has the ability to print a subset of the final form (L2DCA) data stream. Thus, IBM Displaywriter systems can distribute final form documents through IBM DISOSS/370 Version 3 for subsequent printing on a Scanmaster I. In addition, IBM Scanmaster I can file image documents in the IBM DISOSS/370 host document library. The Displaywriter attached to the DISOSS/370 network can direct the distribution of these image documents from the host document library to locations with the IBM Scanmaster I.

IBM 5520 - The IBM 5520 Administrative System, using the 5520 Administrative Processing Program (5611-SS2) Release 2 can file but cannot retrieve final form documents in the IBM DISOSS/370 host document library. Final form documents can be transferred one-way (5520 to Displaywriter) through the DISOSS/370 host document library. In addition, both Displaywriter and the IBM 5520 can file or retrieve records documents in the DISOSS/370 host document library, providing a two-way interchange. IBM has stated its intent to enhance this data interchange capability to include both final form and revisable form text interchange between IBM 5520 and Displaywriter.

Planning information

Customer responsibility: In problem situations, the customer will be responsible for completing applicable problem determination procedures prior to contacting the IBM Office Systems Customer Assistance Center, and then performing problem definition activities and remedial actions as requested. Should the customer refuse to perform these activities as required, IBM will charge at the then current hourly rate for providing these services.

Publications

The following unlicensed publications are available now from Mechanicsburg:

- IBM Displaywriter System General Information Manual, G544-0851
- IBM Displaywriter System Electronic Document Distribution Licensed Program Design Objectives, G544-2139

The following unlicensed publications are planned for availability from Mechanicsburg in April, 1983 for pre-installation planning:

- IBM Displaywriter System Electronic Document Distribution Planning Guide, G544-2138
- IBM Displaywriter System Electronic Document Distribution Host Attach Programming Guide, G544-2135
- IBM Displaywriter System Electronic Document Distribution Compatibility Guide, G544-2185

One copy of the following unlicensed documentation will be furnished in a kit labeled S544-2268 with the program diskettes shipped from the Program Information Department (PID), Sterling Forest, New York. Additional copies of the publications may be ordered from

Mechanicsburg. Publication updates are provided via the Subscription Library Subscription Service (SLSS).

- IBM Displaywriter System Electronic Document Distribution Operator Training Guide, Books 1-5, S544-2179 through S544-2183
- IBM Displaywriter System Electronic Document Distribution Operator Reference Manual, S544-2184
- IBM Displaywriter System Electronic Document Distribution Communication Link Problem Determination Guide, S544-2136
- IBM Displaywriter System Electronic Document Distribution Template, S544-2137
- IBM Displaywriter System Electronic Document Distribution Licensed Program Specifications, G544-2141

Charges:
  One-time charge $750
  Annual charges   325

Program services: Central service will be provided via the IBM Office System Customer Assistance Center (OSCAC) until discontinued by IBM upon six months' written notice. The OSCAC support is available during normal business hours (8 a.m. EDT through 5 p.m. PDT).

Testing period: Five days.

Installation license applies: No. A separate license is required for each designated machine on which the licensed program materials will be used except as otherwise provided by IBM. Each IBM Displaywriter System 6580 Display Station will be considered a designated machine.

Location license applies: No.

Warranty: Yes.

Volume procurement: Licensed Program Group II. Discount based upon quantity committed in Licensed Program Group I (Textpack programs).