AD-A231 576

DLA

INFORMATION

SYSTEMS

TECHNOLOGY

INTEGRATION

GUIDE

JANUARY 1991

91 2 28 011

DLA INFORMATION SYSTEMS
TECHNOLOGY INTEGRATION GUIDE
for the
FISCAL YEAR of 1991

TABLE OF CONTENTS

DLA INFORMATION SYSTEMS
TECHNOLOGY INTEGRATION GUIDE
for the
FISCAL YEAR of 1991

DLA INFORMATION SYSTEMS
TECHNOLOGY INTEGRATION GUIDE
for the
FISCAL YEAR of 1991

A.   INTRODUCTION.

The purpose of this document is to provide guidance for system
designers at the central design activities (CDAs) on the
availability and potential usages of the technical components that
are authorized for use in DLA. The components which are available
or which are anticipated are described herein.

The basic policies and procedures to be followed by the system
designer in developing systems which satisfy requirements are also
identified by this document. Observance of these policies and
procedures will help assure successful integration of systems and
a consistant course toward the technical objectives of the Agency.

The reader is referred to the DSAC Business Model which
illustrates not only the design and development processes for
information systems and the supporting technology process but also
the inter-relationship between the CDA and the Headquarters
required for successful integration.

Statement "A" per telecon Sally Barnes.
HQ Defense Logistics Agency/DLA-ZIA.
Cameron Station Alexandria, VA
22304-6100
        VHG   3/4/91

B. ARCHITECTURAL OBJECTIVES.

We are in an "information age". A vast amount of information is available and can be used to accomplish our mission more effectively. However, because of the diverse hardware and software on which this information may be located, technical alternatives must be developed which allow an interface to or which provide a substitute for the proprietary systems which currently exist. In addition, the institution of full and open competition for acquisitions for our information systems has driven us beyond our previous boundaries. Only an open systems architecture (OSA) and its inherent objectives can address the environment in which we now find ourselves.

An OSA is a technical framework based upon national and international standards. It allows information systems built within it to communicate with, to interoperate with, or to move to other systems which also recognize those same standards.

In order to establish the Agency's direction toward an OSA, several planning documents were developed which define the objectives. The DLA Systems Software Blueprint identifies the fundamental goals of an OSA as interoperability and portability of systems. It specifies Structured Query Language (SQL) based relational data bases as a goal and describes basic design principles such as the use of a multi-tiered architecture which supports the client/server (cooperative processing) model. These goals are to be evolutionary, to be achieved as rewrites and major redesigns are accomplished.

A draft Communications Blueprint, which describes the communications objectives of an OSA, was later developed, and the combination of the Software Blueprint and the Communications Blueprint resulted in the DLA Open Systems Architecture for Information Systems document (still in draft).

The Strategic Architectural Objectives (SAO) documents were developed initially to support SAMMS Immediate Improvement Initiative (I3), but with a view toward DLA systems as a whole. The SAOs define the Agency's short-term (two year) architectural objectives which position us for implementing an OSA.

Taken as a whole, these documents identify the need for an OSA, describe the OSA environment to which we need to move, as well as the steps which must be taken to get there. The technology components on the contracts identified in this Guide

support that direction because they are, to the extent possible, based on national and international standards. Restricting the acquisition of components to these contracts is really a lifting of the restrictions imposed by proprietary products and a move toward interoperability and portability of systems.

1. "State of the Contract" Design

The architecture documents previously described represent DLA's target for the future. By embracing the objectives in these documents, we position ourselves to integrate effectively the tremendous quantity and variety of technical components and concepts which are required to meet the users needs. To assist with that integration, DLA's information systems technology objectives include what is called "state of the contract design". In this concept a complete list of approved hardware and software components is maintained. Approval of these components is based on their compliance with DLA's architectural objectives. These components must be sufficient to support not only system maintenance but also the client/server model systems envisioned in future design objectives.

The list of components identifies the available or anticipated contract(s) from which the required components are to be supplied. Systems are to be designed using only components from this list. Should components be needed which do not have a contract vehicle, a deficiency is indicated. An acquisition for approved components must be started early to ensure sufficient procurement lead time. The use of other components, for which there are equivalents on the approved list, will not be allowed without justification.

2. The Client/Server Architecture

DLA has adopted the client/server architecture as a model for its applications design. Client/server computing with cooperative processing is a distributed processing architecture. The goal is to distribute processing power over different computer platforms, matching the application function to the most appropriate platform. Thus, each platform is optimized for performance.

The key components of this architecture are an application (client) to manipulate and analyze data, an application (server) to organize and store data and to provide data based on a client's request, and a network to connect multiple servers and clients. A server can be, among other things, an image processor, an expert system engine, a specialized audio processor, or a database server.

Database servers are the most common type of server. In a client/server architecture, all DBMS activities are assumed by the back-end database server. By placing the responsibility of data management on the database server, a spreadsheet user, for instance, can rely on the database server to handle multiple users accessing the same data. Also, database servers offer the possibility of greater connectivity in a homogeneous or heterogeneous network environment.

In a client/server architecture, clients communicate with relational database servers using SQL, the industry-standard language for relational database access and manipulation. However, clients and servers are separated by physical distances, network cables and other hardware. A communication protocol is needed to carry SQL statements back and forth between clients and servers. In DLA the protocol used is RPC, although the most widely used protocol today is TCP/IP. SQL is the high-level language in such a communication; RPC or TCP/IP is the protocol that makes the communication possible.

Figure 1 shows the most basic client/server configuration. Figure 2 is a representation of the DLA environment, a much more complex network with client/server configurations and traditional architectures intermixed.

SIMPLE CLIENT/SERVER ARCHITECTURE
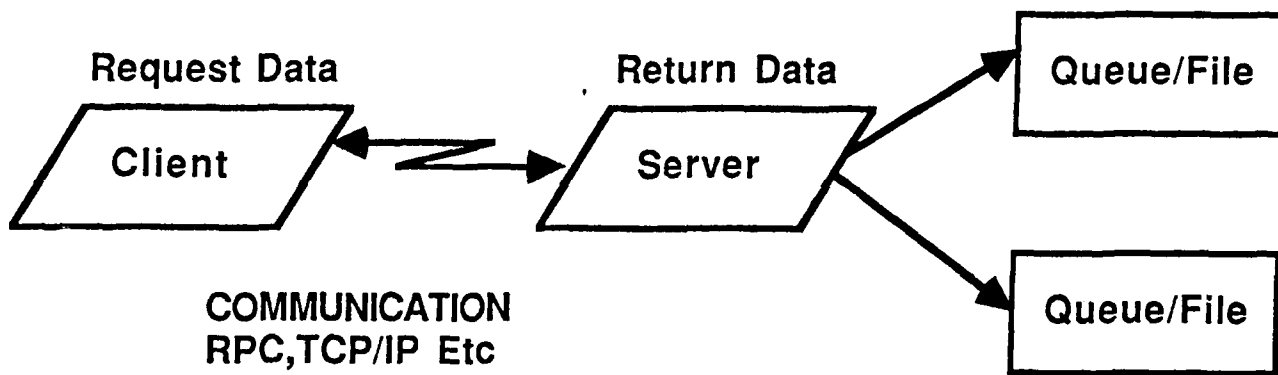
Figure 1

DLA's MIXED ARCHITECTURE ENVIRONMENT

ILLUSTRATIVE
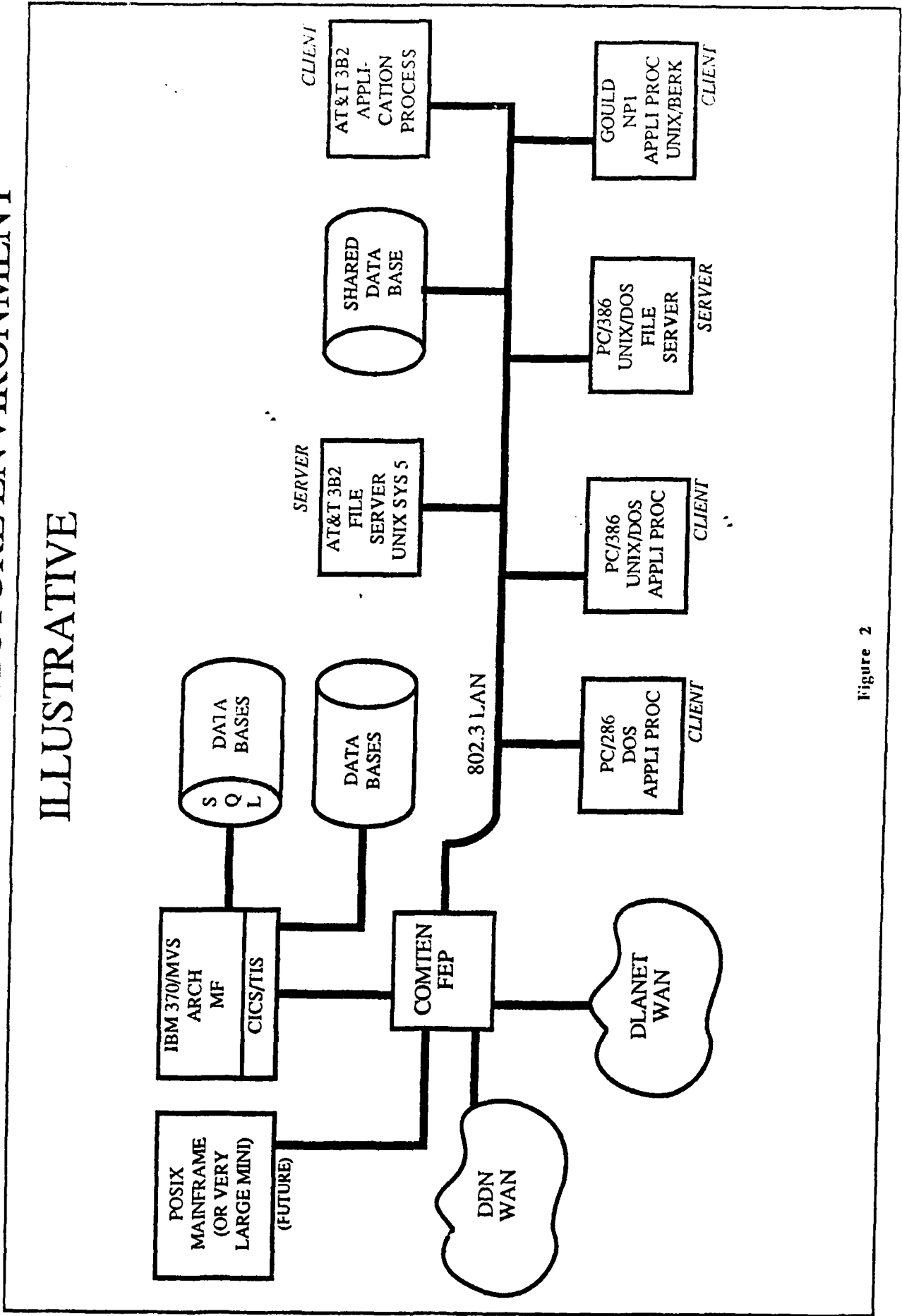
Figure 2

3. <u>Architectural Standards</u>.

As described by the DLA Systems Software Blueprint, each type of "system" (personel, departmental, and corporate) has its own set of acceptable standards. Some of these standards are acceptable because they are supported by the current environment. There is, however, a target set of standards for each system type depending on how it is being used. As systems are modernized or changed, there should be movement toward this target standards environment. It is the responsibility of the Systems Integration Division (DLA-ZI) to make contracts with components which ensure that direction available to the system designers .

Figure 3 is an architectural matrix which depicts the current and desired standards for the various system types.

SYS TYPE/STDS/ARCH MATRIX

SYS TYPE	SOFTWARE STANDARDS			AUTHORIZED COMPONENT USAGE FOR DLA INFORMATION SYSTEMS ARCHITECTURES		
	OPERATING SYSTEM	DBMS	NETWORK ACCESS	APPLICATION PROCESSOR	FILE/DB SERVER	COMM NETWORK GATEWAY
PERSONAL SYSTEMS						
PORTABLE	(MS/DOS)	(ENABLE)	(ZSTEM)	yes	" NO	NO
DESKTOP WKSTN	(MS/DOS)	(ENABLE)	(ZSTEM)	yes	yes	yes
	(UNIX)	(UNIFY SQL)	*NFS	YES	yes	yes
	POSIX Conformant	*STD SQL	*NFS	YES	yes	yes
DEPARTMENTAL SYSTEMS						
	(UNIX)	(UNIFY SQL)	(RFS)	YES	yes	yes
	(UNIX)	(UNIFY SQL)	*NFS	YES	YES	YES
	POSIX Conformant	*STD SQL	*NFS	YES	YES	YES
CORPORATE SYSTEMS						
	MVS/SP/*XA/*ESA	(TIS)	(ENVIRON1)	yes	yes	yes
	MVS/SP/*XA/*ESA	(TIS)	*CICS	yes	yes	yes
	MVS/SP/*XA/*ESA	None	(SAMTAM)	yes	yes	yes
	MVS/SP/*XA/*ESA	None	(MOTAM)	yes	yes	yes
	MVS/SP/*XA/*ESA	None	(DBDAM)	yes	yes	yes
	MVS/SP/*XA/*ESA	None	(VSAM)	yes	yes	yes
	MVS/SP/*XA/*ESA	*STD SQL	*CICS	YES	YES	YES
	MCP DLSC	(DMS II)		yes	yes	yes
	OS-1100 DTIC	(DMS - 1100)		yes	yes	yes
	OS-1100 DTIC	(DB4)		yes	yes	yes
	POSIX Conformant	*STD SQL	*NFS	YES	YES	YES

Figure 3

SYS TYPE/STDS/ARCH MATRIX

*DATA BASE MACH	N/A	*STD SQL	*NFS	NO	YES	NO
LAN	N/A	N/A	802.3 802.5			
WAN	N/A	N/A	(DLANET) DDN FTS 2000			

KEY:

() components in () indicate that the item is allowable only for existing systems and upgrades of existing systems.

When an existing system is redesigned, the component must be replaced with an authorized component.

System Type:

The terms "personal", "departmental", and "corporate", as defined by the Software Blueprint, relate to data ownership. They are also applied to general equipment platforms. For the sake of clarity the following should be assumed:

Figure 3

SYS TYPE/STDS/ARCH MATRIX

PERSONAL SYSTEMS		
	Portable Computers	- Portables
		- Z-184
	Desktop Wkstns	-Personal Computers and Workstations
		- Z-248
		- Desktop III
DEPARTMENTAL SYSTEMS		
	Minicomputers (generally):	
	- 3B2	
	- Gould 9050	
	- Gould NP1	
	- Tandem	
	- DEC	
CORPORATE SYSTEMS		
	Mainframe Computers (generally):	
	- IBM 370/Architecture systems	
	- UNISYS B7800s	
	- UNISYS 1100s	

YES/yes - The use of large versus small letters indicates preference.
While small letters mean the item is acceptable,
uppercase means the item is preferred.

* An * indicates a component that is preferred but not yet available from a standard contract.
Therefore, an acquisition is needed.

Figure 3

C. __POLICIES AND PROCEDURES__.

This section establishes policies and describes procedures to be followed in satisfying requirements for system design.

1. __Policies__.

The following policies must be considered when developing requirements for a system design:

a. Systems will be designed only from approved component lists to ensure successful integration and migration toward stated architectural objectives. Only if there are no components available or anticipated which satisfy the system requirement should an acquisition be initiated. This acquisition should be in accordance with DLA Regulation (DLAR) 4710.1, Management of Automated Data Processing/Telecommunications (ADP/T Resource Acquisition). The use of any other source for components should be justified.

b. As a general rule, the purchase of unintelligent terminals should be avoided. Providing intelligence at the lowest possible tier establishes an opportunity for the design of processing at that tier, thus permitting client/server architecture to be accomplished. The DLA Systems Software Blueprint and the DLA Open Systems Architecture for Information Systems documents prescribe that processing be designed for the lowest tier practical.

c. Any data base management system to be acquired must be SQL compliant.

d. The Agency will migrate toward POSIX compliant operating systems. The Navy super-mini joint service acquisition now under development with participation by DLA will be considered the vehicle for obtaining __POSIX compliant__ large systems.

e. IBM's MVS/XA and eventually MVS/ESA (or its equivalent) will be the Agency's operating system for its IBM and IBM compatible mainframes for the next seven to ten years. The virtual memory constraint associated with MVS/SP make it critical to migrate.

f. A standard teleprocessing monitor for the Agency's IBM architecture will be pursued.

g. The development of a data repository which conforms to the Information Resources Dictionary System (IRDS) standard will be pursued.

h. The DLA Information Systems Technology Integration Guide will be revised quarterly.

2. <u>Procedures</u>.

It is essential that requirements be identified as early as possible in order to ensure sufficient procurement lead time. Whenever possible, acquisition of components will come from approved contracts available to the Agency. If approved components are not available or anticipated, documentation to support acquisition requests will be prepared in accordance with DLAR 4710.8 for End User Computing resources and DLAR 4710.1 for all other ADP/T resources. Questions regarding documentation requirements should be addressed to DACO. Documentation should be provided to DLA-Z in accordance with the "Front Door" process.

DLA-ZI, Systems Integration Division, will review, for architectural compliance, all requirements prior to their being sent to DACO for acquisition.

D. SOURCES OF TECHNOLOGY COMPONENTS.

The following pages identify sources for the technology components
which are currently approved or anticipated to be approved for
utilization in DLA systems. Figure 4 is a matrix of contracts and
their associated components. Figure 5 is a time-line of available
contract expiration dates and anticipated contract award dates.
Detailed information on available contracts is at Appendix A.
Appendix B contains as much information as is currently available
on anticipated contracts.

					CONTRACTS CURRENTLY IN PLACE OR PLANNED					
COMPONENTS	AFCAC 251	ULANA	FALCON DMINS MAINT	LAPHELD ZENITH	DESKTOP III	COMPANION	DASD II	CARTRIDGE TAPE REPLM	DLANET PHASE II	ARMY SUPER MICRO
PROCESSORS	3B2, 600G		GOULD 9050 NP1	80286, ZFL-184-95, ZWL-184-97	UNISYS 80386	X			COMTEN T4034-A6	PRIME EXL320
MEMORY(MAX)	64 MEG		4 MB		16 MB	X			X	16 MB
DISK (REM/			800 MB EACH	5 1/4" FD, 20 MB HARD DISK	3 1/2" FD, 5 1/4" FD, HARD DISK 42-340MB		X			94MB IMPRIMIS, 323 MB H-P, 663 MB H-P
TAPE DRIVES	HEWLETT PACKARD		GOULD, STC					STC		CIPHER C880, KENNEDY
AUTOMATED TAPE LIBRARY								STC		
PRINTERS	OTC, OASYS, OKIDATA		CENTRONICS, FUJITSU	PORTABLE, BROTHER & ALPS	ALPS, PRIMAGE FUJITSU	X				QUME SPRINT
OPTICAL READERS	IOC, SCAN-TRON					X				MICROTEK MS-II
TERMINALS	AT&T		VISUAL TECH		UNISYS PW2 FAMILY					WYSE, EVEREX SYS3000D
MODEMS	CTS FABRITEX, DOWTY, CODEX		GOULD, PARA-DYNE, FUJITSU, 3COM, GANDALF, FALCON		HAYES, UDS	X				INTEL, PARADYNE, MULTI-TECH
BAR CODE	SYMBOL TECH, TELXON, OKIDATA									
OPERATING SYSTEM	UNIX		UNIX		MS/DOS and POSIX	X				MS/DOS and UNIX
DATABASE SW	UNIFY, ACCELL		UNIFY, ACCELL							X-DB
COMM SOFTWARE	DDN		GOULD, DAC, TOUCHSTONE						X	FTAM, VT720, MH400 X.400

Figure 4

CONTRACTS CURRENTLY IN PLACE OR PLANNED

COMPONENTS	AFCAC 251	ULANA	FALCON DMINS MAINT	LAPHELD ZENITH	DESKTOP III	COMPANION	DASD II	CARTRIDGE TAPE REPL	DLANET PHASE II	ARMY SUPER MICRO
COMPILERS	COBOL, ADA, FORTRAN, C, PASCAL, SW GEN, UTILITIES		COBOL, BASIC, FORTRAN, PASCAL		ADA, FORTRAN					ADA, BASIC, C, COBOL, FORTRAN, LISP, PASCAL, PROLOG
OFFICE AUTOMATION	PRELUDE		Q-OFFICE	PCXFER SW PACKAGE	MS OFFICE, ENABLE 4.0	X				UNIPLEX, EDS, KEYWORD
PAGE SCANNER					MICROTEK					
CD-ROM					SONY					LMS-CM131
WORM					CHEROKEE					LASERDRIVE
PLOTTER					HOUSTON					H-P
FAX CARD					MICROTEK					
LAN INTERFACE CARD					WESTERN DIGITAL					
HOST ATTACHMENTS		IBM PC XT/ SPERRY PC40, IBM PC AT/ ZENITH 248, VAX 750 OR 780 w/VMS, VAS 780 w/ ULTRIX, MICRO VAX II w/VMS SPERRY 1100/60, IBM 43X1 w/ VM								
MED. ATTACH-MENTS UNITS	X	BASEBAND 10 BASE 5, BASEBAND 10, BASE 2, BAND 10 BROAD 36	X							
ASYNCHRONOUS ATTACHMENTS		1-4 PORT, 5-16 PORT, 17-32 PORT								
SYNCHRONOUS ATTACHMENTS		IBM 3278 TERMINAL, IBM								

Figure 4

Figure 4

COMPONENTS	AFCAC 251 ULANA	FALCON DMINS MAINT	LAPHELD ZENITH	DESKTOP III	COMPANION	DASD II	CARTRIDGE TAPE REPLM	DLANET PHASE II	ARMY SUPER MICRO
HOST, SPERRY									
UNISCOPE TERMI								X	
NAL SPERRY									
UNISCOPE HOST									
LOCAL BRIDGES	X								

CONTRACTS CURRENTLY IN PLACE OR PLANNED

CONTRACTS	FY91 2nd	FY91 3rd	FY91 4th	FY92 1st	FY92 2nd	FY92 3rd	FY92 4th	FY93 1st	FY93 2nd	FY93 3rd	FY93 4th	FY94 1st	FY94 2nd	FY94 3rd	FY94 4th	FY95 1st	FY95 2nd	FY95 3rd	FY95 4th
FALCON DMINS MAINTENANCE			SEP																
SMSCRC											SEP								
ULANA											SEP								
DESKTOP-III																	JAN		
DASD-II																DEC			
DLANET-II																DEC			
GSA SCHEDULE			SEP																
ARMY SUPER MICRO																			
NAVY SUPER MINI				OCT															
NAVY DATA BASE MACHINE			JUL																
LAPTOP-II			SEP																
CTOL																			
UNIFY 2000	MAR																		
CARTRIDGE TAPE REPLACEMENT																			
PC SOFTWARE I																			

Figure 5

E. ACQUISITION CONSIDERATIONS.

Requirements for hardware/software/peripherals must be submitted
through each activity's servicing OTIS in accordance with DLAR
4710.1 and 4710.8. Due to continued budget constraints, it is
extremely important that only justified requirements be forwarded
to DLA-Z and that the justification identify any cost savings or
productivity enhancements that will be achieved by acquiring the
requested equipment. Any requests over one year old and not
procured due to lack of funds will be returned to the requesting
activity for revalidation of the requirement. Any O&M
requirements under $25,000 should be procured locally if within
the activity's procurement authority.

All of the Joint Services contracts will be modified to allow any
DLA authorized ADPE Contracting Officer to process delivery orders
for maintenance and training, if applicable. As noted in DLAR
4105.1, DACO is the only DLA contracting office authorized to buy
microcomputers, regardless of the procurement source, unless a
delegation of procurement authority is provided by DACO/DLA-P.

Further, we request DLA activities forward requirements to
Headquarters only for awarded contracts unless otherwise
requested. Available items are known only after contract award,
and advance orders will have to be returned. Information
concerning each contract will be provided all DLA activities
immediately upon their award.

F. <u>REFERENCES</u>.

The following documents provide additional references.

a. DLA Systems Software Blueprint, Sep 86.

b. DLA Open Systems Architecture for Information Systems.

c. Strategic Architectural Objectives.

d. ULANA "LAN-IN-A-CAN" Design Manual, HQ EID USAF.

e. TRW ULANA Components Guide, Doc. 0010, Rev. C.

f. DSAC Business Model.

g. DLAR 4710.1, Management of Automated Data
    Processing/Telecommunications (Acquisition of ADP/T
    Resources).

h. DLAR 4710.8, End User Computing Policy.

i. Staff Memorandum No. 4, Front-Door Process, Mar 86.

j. DLA-Z Policy Letter, 26 Jun 90, subject: Desktop III,
    Contract No. F01620-90-D-0001.

k. SMC Ordering and Configuration Catalog, 15 Nov 90.

l. Defense Logistics Agency Information Resources Management
    (IRM) Near-Term Planning Document FY 90-92, May 1990.

APPENDIX A

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

AVAILABLE CONTRACTS

	Contract Number	Contract Name
1.	DLAH00-86-D-0005	Falcon DMINS Maintenance Contract
2.	DLAH00-90-D-0018	CTOL Contract
3.	F19630-88-D-0005	Standard Small Multi-User Computer (AT&T 3B2) Contract (Also known as AFCAC 251 or SMSCRC)
4.	F19528-88-D-0039 (EDS) F19528-88-D-0040 (TRW)	Ulana Contract
5.	F01620-90-D-0001	Desktop III Contract
6.	DLAH00-90-D-0005	DASD II
7.	DLAH00-90-C-0001	DLANET Phase II
8.	VARIOUS	GSA Schedule Contracts
9.	DAHC94-90-D-0012	Army Super Microcomputer Contract
10.	DLAH00-91-D-0003	Cartridge Tape Replacement Contract
11.	F01620-91-D-0001	PC Software I
12.	NSN 7025012725039	CD-ROM Reader Contract

APPENDIX A

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

AVAILABLE CONTRACTS

1. <u>Falcon DMINS Maintenance Contract</u>.

   Award Date - Jul 1990

   Contract Life - 1 year

   Contract Type - Firm-fixed Price Requirements

   Contracting Office - Defense Logistics Agency (DACO)

   Ordering Date - Has begun

An extension until July 1991 of the Falcon DMINS contract was granted for maintenance <u>only</u>. Development of a follow-on maintenance contract has started. The Desktop III contract and the Army Super Microcomputer contract are available for PCs. The Navy Super Minicomputer contract, currently scheduled for award in the first quarter of FY92, will provide DMINS size equipment.

2. <u>CTOL Contract</u>.

   Award Date - Aug 1990

   Contract Life - 10 years

   Contract Type - Requirements

   Contracting Office - Defense Logistics Agency (DACO)

   Ordering Date - Mar 1991

This contract is for use in support of the Federal Catalog System and related logistics functions. It is to be used by cataloging activities for a variety of hardware and software to include Sequent minicomputers, Zenith graphics workstations, Oracle data base management system, LANs, laser printers, scanners, aperture card readers, and optical juke boxes.

APPENDIX A

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

AVAILABLE CONTRACTS

3. Standard Small Multi-User Computer (AT&T 3B2) Contract.
     (Also known as AFCAC 251 and SMSCRC)

     Award Date - Oct 1988

     Contract Life - Initial award for 2 years with options to
expand to 5 years for hardware and training and 8 years for
software, data, spares, maintenance and systems engineer support.

     Contract Type - Requirements

     Contracting Office - Air Force

     Ordering Date - Has begun; DLA has a quota of 25 systems per
month This contract is for multi-user systems that will support
from 8 to 64 users. The systems are both Tempest and non-Tempest.
The operating system is System V UNIX. Associated peripherals,
software and LAN equipment are also available. DLA is a mandatory
participant. This contract was awarded to AT&T.

4. ULANA Contract.

     Award Date - Sep 1988

     Contract Life - 5 years; 3 years for hardware maintenance
with option to extend for 2 additional years of maintenance

     Contract Type - Indefinite Delivery/Indefinite Quantity

     Contracting Office - Air Force

     Ordering Date - Has begun

This contract provides LAN products and services, networking
standards, system high secure networks, and interim network
management systems. There are plans for migration to OSI, GOSIP,
and to provide a fully automated ISO standard network management.
The ULANA contract consists of two winning contractors, EDS and
TRW, two manufacturers who produce interoperable equipment.

APPENDIX A

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

AVAILABLE CONTRACTS

5. <u>Desktop III Contract.</u>

    Award Date - Jan 1990

    Contract Life - 5 years ordering life with an additional 3 years of maintenance

    Contract Type - Firm-fixed Price Requirements

    Contracting Officer - Air Force

    Ordering Date - Has begun

This contract, awarded to Unisys, is the follow-on to the Z-248 contract. Desktop III covers a range of products from 32-bit systems, mass storage, memory expansion, and peripheral devices to single and multi-user operating systems and software. DLA is a non-mandatory participant.

6. <u>DASD-II Requirements Contract.</u>

    Award Date - Dec 1989

    Contract Life - 5 years with maintenance

    Contract Type - Firm-fixed Price Requirements

    Contracting Office - Defense Logistics Agency (DACO)

    Ordering Date - Has begun

This contract, awarded to Storage Technology Corporation (STK), contains Bid Lots One, Two and Three.

Lot One contains an 8890-12 storage control unit including a two-channel switch and 12MB cache memory. Cache memory may be upgraded only one time to 18MB, 36MB or 72MB. Disk drives available are double capacity (5.06GB) 8380-AE4 and 8380-BE4 drives and single capacity (2.52GB) 8380-AD4 and 8380-BD4 drives.

Lot Two contains a 4305-008 Electronic Disk Storage/Solid State Device including a four-channel switch and 96MB storage module. An uninterruptable power supply (battery backup) is available and the 4305 solid state device can be upgraded to 576MB cache.

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

AVAILABLE CONTRACTS

Lot Three contains an 8890-72 storage control unit including a two-channel switch and 72MB cache memory. High performance disk drives available are single capacity (2.52GB) 8380-AP4 and 8380-BP4 drives and Triple capacity (7.56GB) 8380-AF4 and 8380-BF4 drives.

7. DLANET Phase II.

   Award Date - Dec 1989

   Contract Life - 5 years (Sep 1994)

   Contract Type - Firm-fixed Price (No delivery orders)

   Contracting Office - Defense Logistics Agency (DACO)

   Ordering Date - Has begun

This contract, awarded to National Cash Register (NCR), provides memory expansion and operating system upgrades to the Agency's Comtens. Included as an option is a suite of DDN software.

8. GSA Schedule Contracts

   Award Date - Oct 1990

   Contract Life - 1 year

   Contract Type - Indefinite Delivery/Indefinite Quantity

   Contracting Office - General Services Administration (GSA)

   Ordering Date - Has begun

These contracts provide a variety of frequently requested hardware and software products. The majority of IBM mainframe software is bought this way. GSA Schedule Contracts are normally issued for a period of one (1) year (1 Oct - 30 Sep) and are open to all agencies and services.

APPENDIX A

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

AVAILABLE CONTRACTS

9. Army Super Microcomputer Contract.

   Award Date - Jul 1990

   Contract Life - 5 years for ordering and options to expand to
                   7 years for maintenance

   Contract Type - Indefinite Delivery/Indefinite Quantity

   Contracting Office - Army

   Ordering Date - Has begun

This acquisition offers an integrated office automation support
system for from 2-12 users for worldwide use. The systems are
configured from non-developmental, commercially available
hardware, system software and selected application software.

10. Cartridge Tape Replacement/Automated Tape Library (ATL).

   Award Date - Nov 1990

   Contract Life - 5 years

   Contract Type - Requirements

   Contracting Office - Defense Logistics Agency (DACO)

   Ordering Date - Has begun

This acquisition provides ATLs and cartridge tapes drives to the
Agency as replacements for antiquated 9-track tape drives.

11. PC Software I.

   Award Date - Nov 1990

   Contract Life - 5 years

   Contract Type - Requirements

   Contracting Office - Air Force

   Ordering Date -

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

AVAILABLE CONTRACTS

This contract provides upgrades for PC software obtained from the
Zenith 248 and Laptop contracts. It is not to be used for new
software acquisition.

12.   CD-ROM Readers.

        Award Date -

        Contract Life -

        Contract Type -

        Contracting Office -

        Ordering Date - Has begun.

CD-ROM readers (5 1/4" disks), cabling, and power cords for an IBM
PC-XT or PC-AT environment may be requisitioned using NSN
7025012725039. Item manager is DESC (S9E).

APPENDIX B

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

ANTICIPATED CONTRACTS

Contract Name

1. Navy Super Minicomputer System

2. Navy Data Base Machine

3. Laptop II

4. Standard Desktop Companion

5. Unify 2000 Upgrade

6. Optical Disk

7. MVS TCP/IP

8. TEMPEST II

9. PC Software II

APPENDIX B

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

ANTICIPATED CONTRACTS

1. Navy Super Minicomputer System.

    Award Date - Estimated 1st Quarter FY92

    Contract Life - 5 years

    Contract Type - Requirements

    Contracting Office - Navy

    Ordering Date - Unknown at this time

This contract will provide the capability for up to 256 concurrent users on a system. Among the hardware on this contract are workstations, printers, and modems. The CPU will be based on the 32 bit architecture. There will be a DDN gateway as well as compliance with GOSIP standards. The DASD for the 256 user system will be expandable up to 27GB. DLA will be a non-mandatory participant.

2. Navy Data Base Machine Contract.

    Award Date - Estimated 4th Quarter FY91 (July)

    Contract Life - 5 years with options for 5 mor years for maintenance

    Contract Type - Indefinite Delivery/Indefinite Quantity

    Contracting Office - Navy

    Ordering Date - Unknown at this time

This is a joint services acquisition for database machines, special purpose processors which perform basic database management functions. Different hosts can share the same database machine. Off-loading the data base management functions can extend the host computers' system life. Database interoperability with different vendor hardware is also provided. The acquisition is for hardware, software, maintenance, training, documentation and support services.

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

ANTICIPATED CONTRACTS

3. **Laptop II**.

   Award Date - Estimated 4th Quarter FY91

   Contract Life - 2 years for purchase with option to extend to
                   5 years with maintenance

   Contract Type - Indefinite Delivery/Indefinite Quantity

   Contracting Office - Navy

   Ordering Date - Unknown at this time

This is the replacement for the current lapheld contract. This
contract will offer three types of lapheld microcomputers: regular
80286 size, notebook size, and 80386 size. This contract will
provide for a selection of compatible peripheral devices,
communications, software, warranty service, maintenance, and
replacement parts that will be used worldwide. DLA is a
non-mandatory participant on the Laptop II contract.

4. **Standard Desktop Companion Contract**.

   Award Date - Nov 89

   Contract Life - 5 years

   Contract Type - Firm fixed price requirements contract

   Contracting Office - Navy

   Ordering Date - To be specified

The protest filed against the award made on this contract was
upheld. The new award date is estimated to be 1 Apr 91. This
contract, originally awarded to Zenith Data Systems, provides a
variety of hardware and software compatible with the Z-248
systems. It also provides maintenance for all Z-248 contract
equipment except for the 20mb tape backup unit shipped under CLIN
0016AA. Items on the contract include an upgrade for the
microprocessor, mass storage devices, memory expansion, modems,
printers, presentation devices, multi-user operating systems, some
MS-DOS compatible software and desktop publishing. DLA is a
mandatory participant.

APPENDIX B

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

ANTICIPATED CONTRACTS

5. <u>Unify 2000 Upgrade</u>.

    Award Date - Mar 1991

    Contract Life - Five years of maintenance

    Contract Type - One-time

    Contracting Office - Defense Logistics Agency (DACO)

    Ordering Date - Thirty days after award

DLA has entered into preliminary negotiations with the Unify Corporation to provide the Unify 2000 data base management system (DBMS) as a replacement for all copies of the Unify DBMS currently installed on the Gould 9050s. Technical services to support the conversion would also be provided.

6. <u>Optical Disk</u>.

    Award Date -

    Contract Life -

    Contract Type -

    Contracting Office -

    Ordering Date -

Preliminary discussions have taken place on recommendations to the USAF for adding optical disk to the SMSCRC contract.

7. <u>MVS TCP/IP</u>.

    Award Date -

    Contract Life -

    Contract Type -

    Contracting Office -

    Ordering Date -

AUTHORIZED INFORMATION SYSTEMS COMPONENT LIST

ANTICIPATED CONTRACTS

Plans are being made for this acquisition which will provide Network File System (NFS) access between the mainframe and other tiers. This establishes compatibility with the NFS already available on the other tiers. This may be a GSA Schedule buy.

8. TEMPEST II.

   Award Date -

   Contract Life -

   Contract Type - Requirements

   Contracting Office - Air Force

   Ordering Date -

Project undertaken to provide TEMPEST PCs and associated peripherals and software.

9. PC Software II

   Award Date -

   Contract Life -

   Contract Type - Indefinite Quantity/Indefinite Delivery

   Contracting Office - Air Force

   Ordering Date -

This acquisition will provide a variety of software for PCs provided by the Joint Service Acquisitions.

DLA-Z

SUBJECT: DLA Information Systems Technology Integration Guide

TO: Commanders of DSAC, DFSC, DASC, DTIC, DLSC
        Chief, Defense Automatic Address System Office

1. The enclosed document is approved as published for immediate adoption. This Guide is meant for use in design of the technical platform for systems. Initially, it will be revised at least quarterly.

2. You are encouraged to provide ideas for additional inclusions to the document or comments on the document as it exists. Point of contact is Sally Barnes, DLA-ZIA, DSN 667-7107.

Encl

See
next
pg.

BOBBY L. PARSONS
Deputy Assistant Director
Information Systems
and Technology

DLA-Z

SUBJECT: DLA Information Systems Technology Integration Guide

TO: Commanders of DSAC, DFSC, DASC, DTIC, DLSC
          Chief, Defense Automatic Addressing System Office

1. The enclosed document is approved as published for immediate
adoption. The Guide is meant for use in design of the technical
platform for systems. Initially, it will be revised at
least quarterly.

2. You are encouraged to provide ideas for additional inclusions
to the document or comments on the document as it exists. Point
of contact is Sally Barnes, DLA-ZIA, DSN 667-7107.

Encl

MFR: This document was coordinated separately. Comments were
received from both ZR and DSMO. The gist of these comments is
that the target technical architecture is not described. That is
NOT the purpose of this document. It is to provide information on
available or anticipated contract vehicles and how to use them for
system design.

Coord: DLA-ZIA ____ 31 Jan 91   DLA-ZI ____ ZR Blue Clip

Prepared by: Sally Barnes/ENABLE/TIGLTR/31Jan91/sb
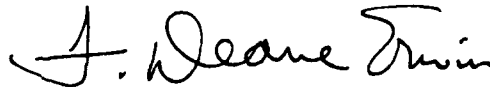1-31-91

1 6 JAN 1991

SUBJECT: DLA Information System Technology Integration Guide

TO: DSMO
           DLA-ZO
           DACO
           DLA-ZR

1. Enclosed is the DLA Information System Technology Integration
Guide. You have seen it before for coordination and, as much as was
possible, your comments have been included. Request your coordination
by Thursday, 24 Jan 91. A negative response is not necessary, your
concurrence will be assumed unless we hear from you.

2. If you have any questions, see Lt Col Rose, DLA-ZIA, 47506, or
Ms. Barnes, DLA-ZIA, 617-7107.

1 Encl

signed
F DEANE ERWIN
Chief
Systems Integration Division

DLA-Z

SUBJECT: DLA Information Systems Technology Integration Guide

TO: Commanders of DSAC, DFSC, DASC, DTIC, DLSC
           Chief, Defense Automatic Addressing System Office

1. The enclosed document is approved as published for immediate
adoption. The Guide is meant for use in design of the technical
platform for systems. Initially, it will be revised at
least quarterly.

2. You are encouraged to provide ideas for additional inclusions
to the document or comments on the document as it exists. Point
of contact is Sally Barnes, DLA-ZIA, ~~FTS~~ 667-7107.
                                       DSN

Encl   :

Coord: DLA-ZIA _____   DLA-ZI _____   DSMO _____
               16 JAN 91

        DLA-ZO _____   DACO _____   DLA-ZR _____

DLA-ZR

SUBJECT: DLA Information System Technology Integration Guide

TO: DLA-ZI

1. Reference your IOM dated 16 Jan 91, subject as above.

2. The subject document presents a representative environment with associated objectives but does not really define an approved top-level target architecture or implementation planning approach. Integration, for instance, of the client-server architecture into the existing environment will take an evolutionary, phased implementation and budgeting approach accomplished under approved policies and procedures. For example, without this type of approach, it is difficult to assess whether the statement of page 13, 1b regarding the purchase of unintelligent terminals, is strategically, technologically, or financially a sound proposition. If client/server architecture can be implemented within the next 2-3 years it may be; if it takes 5-10 years, it may not be.

3. Hopefully, our concerns will be addressed at the upcoming discussions to be scheduled on Technology and Telecommunications.

4. If you have any questions, please contact Jean Singer at extension 47576.

ROBERT M. HARRISON, Jr.
Deputy Chief
Information Resources
Management Division

J. SInger/47576/sg/22 Jan 91

coordination: ZRI _____ ZRD/ZR _____