

DEPARTMENT OF DEFENSE

DIRECTIVES SYSTEM TRANSMITTAL

NUMBER

4105.55 - Ch 1

DATE

May 4, 1971

DISTRIBUTION

4000 series

ATTACHMENTS

Pages 3&4 of the basic Directive and revised enclosure 2
to DoD Directive 4105.55

INSTRUCTIONS FOR RECIPIENTS

The following page changes to DoD Directive 4105.55, "Selection and Acquisition of Automatic Data Processing Resources," dated January 21, 1971, have been authorized:

PAGE CHANGES

Remove: Pages 3&4 of the basic Directive and enclosure 2
Insert: Attached substitute pages

Changes appear on pages 3 & 4 of the basic directive and on page 2 of enclosure 2, and are indicated by marginal asterisks.

EFFECTIVE DATE AND IMPLEMENTATION

The above changes are effective immediately. Two copies of implementing instructions shall be forwarded to Assistant Secretary of Defense (Comptroller) within 60 days.

Maurice W. Roche

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WHEN PRESCRIBED ACTION HAS BEEN TAKEN, THIS TRANSMITTAL SHOULD BE FILED WITH THE BASIC DOCUMENT

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PREVIOUS EDITIONS ARE OBSOLETE

* at the prototype installation, and has been reviewed and certified through prototype evaluation. The use of computer performance evaluators is encouraged in such evaluations. *

4. Decisions to initiate the process of selecting and acquiring ADP resources from commercial sources, including new installation, augmentation, or replacement of ADPE or other ADP resources, will not be made unless it is first determined that the required ADP capability cannot be obtained satisfactorily or more economically either by sharing of existing Government ADP resources, pursuant to DoD Instruction 5030.40 (reference (f)), or by reutilizing excess Government-owned or leased ADPE, in accordance with DoD Directive 4160.19 (reference (g)). The reasons for any such determinations will be fully documented.
5. The interdependence of ADP and telecommunications shall be recognized at the outset of ADP or telecommunications systems planning and design efforts, and relevant future costs for ADP and associated telecommunications resources shall be identified and considered during the conceptual and programming phases of such systems. DoD Directive 4630.1 (reference (h)) provides guidance for the programming of major telecommunications requirements for both ADP and telecommunications systems. For ADP systems which are estimated to have telecommunications requirements in excess of the thresholds specified in reference (h), no acquisition action will be undertaken before receipt of the program approval for the telecommunications requirements. Requirements for ADPE as integral parts of telecommunications systems, whether for relay or terminal use, will be included as a part of the comprehensive telecommunications program submission required by reference (h).
6. Augmentation or replacement of ADPE peripheral components will be undertaken in such a manner that vendors of competitive, compatible equipments will be given consideration equal to that accorded the vendor of the installed central processing unit (CPU) which supports those peripheral components. Responsibility for successful operation of an ADPE system which consists of multi-vendor components will rest with the using DoD Component, unless responsibility has been contractually assumed by a single vendor.

- * 7. The concepts of integrated logistics support as expressed in DoD Directive 4100.35 (reference (i)) are applicable to large ADP systems with an estimated purchase cost of \$10 million or more, or estimated annual lease cost of \$2.5 million or more. For such systems the principles of Integrated Logistics Support shall be applied throughout all phases of planning and acquisition. Requirements for logistic support thus determined shall be included in the solicitation(s) with emphasis on support delivery being concurrent with operation equipment delivery. Where contract maintenance is a requirement, there shall be emphasis on the need for a comprehensive maintenance plan. *
8. The feasibility and economics of obtaining ADPE maintenance services from any of the various sources (original equipment manufacturer, separate maintenance services contractor, in-house resources, or any combination thereof) will be considered in accordance with the provisions of DoD Directive 4100.15 and DoD Instruction 4100.33 (references (j) and (k)). A maintenance exhibit which specifies the economic data necessary to select from alternative maintenance options will be included in each solicitation document for ADP resources. Some of the factors which should be considered in determining the source of maintenance support are:
- a. Operational character of the system;
 - b. Size and location of the computer installation(s);
 - c. Impact of split maintenance responsibility;
 - d. Relative quality of contractual and in-house maintenance support;
 - e. Experience requirements and training for maintenance personnel; and,
 - f. Cost factors, including amortization of training costs.

The method of maintaining Government-owned ADPE will be periodically reevaluated in a similar manner, preferably annually, in order to reconsider the feasibility of obtaining maintenance support from alternative sources.

DEFINITIONS

I. ADP Resources are defined for purposes of this Directive as the totality of:

A. Automatic Data Processing Equipment (ADPE) -- General purpose, commercially available automatic data processing components and the equipment systems created from them, regardless of use, size, capacity, or price, which are designed to be applied to the solution or processing of a variety of problems or applications and which are not specifically designed, as opposed to configured, for any specific application.

1. This definition includes:

a. Digital, analog, or hybrid computer equipment;

b. Auxiliary or accessorial equipment such as data communications terminals, tape cleaners, tape testers, source data automation recording equipment (e.g., optical character recognition equipment, paper tape typewriters, magnetic tape cartridge typewriters, and other data acquisition devices), data output equipment (e.g., digital plotters, computer output microfilmers), etc., to be used in substantial support of digital, analog, or hybrid computer equipment, either cable-connected, wire-connected, or self-standing and whether selected or acquired with a computer, or separately; and

c. Electrical accounting machines (EAM) used in conjunction with or independently of digital, analog, or hybrid computers.

2. This definition excludes, except for reporting and as may be directed by the Secretary of Defense, computer equipment which is integral to a combat weapons system when:

a. It is physically incorporated into the weapon;

or,

b. It is integral to the weapons system from a design and procurement and operations viewpoint, or

c. Separate selection, acquisition, and/or management of the computer equipment be infeasible.

For the purpose of this Directive, being integral to a combat weapons system means being dedicated to and essential in real time to the performance of the mission of the weapons system

