

S-E-C-R-E-T

CODIB-D-85/4
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Limited Distribution

UNITED STATES INTELLIGENCE BOARD
COMMITTEE ON DOCUMENTATION

Progress Report: Working Group on Remote Systems Input

Attached progress report is distributed for information. Status of funding for R&D on a secure typewriter, under Navy's executive direction, will be an agenda item for the 4 October CODIB meeting.

[Redacted Signature]

Secretary

Attachment

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23 August 1962

MEMORANDUM FOR : Chairman, USIB Committee on Documentation

SUBJECT : Working Group on Remote Systems Input -- Progress Report

Reference : DCI letter to Secretary of Defense, 29 July 1961, subject: USIB Equipment Requirements for Remote Systems Input Device

1. Since the formulation of intelligence community needs for a remote systems input device culminating in reference, the Working Group has made technical modifications to these requirements in light of further exploration and requests for clarification from the DOD executive agency (BuShips).

2. In summary, the Working Group has determined:

a. That the requirement to carry upper and lower case letters of the alphabet from typing through standard telecommunications systems to computer storage and printout should be dropped as uneconomical.

b. That a manual, "input only" typewriter be developed in parallel with an electric "input-output" device in view of the technical feasibility of such an approach combined with attractive security and cost possibilities.

c. That the device developed should be inherently adaptable to the 5 or 8 level coding requirements of each agency, but that the 5 and 8 level code structures used be standard with allowable variations of special characters within each standard.

3. The background details concerning these developments have been made available to the responsible officers in BuShips, and to the CODIB Secretary.

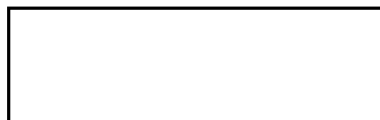
4. DOD has now received an outline of the Navy's proposed approach and request for funding (copy attached). As you know, positive manpower savings and communications improvements are being deferred pending the development of an acceptable device, and the basic problems which gave

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rise to the USIB requirements remain unsolved. Furthermore, the USIB has recently endorsed a policy (USIB-D 39.5/14, 25 June 1962) urging member agencies to begin generating a machine language data base promptly, using special typewriters or keypunches, in anticipation of mechanization. I recommend, therefore, that DOD be requested to give a status report at the next CODIB meeting so that measures can be taken to accelerate the program if such action is indicated.



Chairman

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1 Attachment:

Memo fr Asst. Secy of Navy, R&D to DD-RE, dtd
16 Aug 62, subj: Machine Language Producing
Typewriters for Overseas Installations

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THE ASSISTANT SECRETARY OF THE NAVY
RESEARCH AND DEVELOPMENT
WASHINGTON

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6 AUG 1962

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MEMORANDUM FOR THE DEPUTY DIRECTOR OF DEFENSE RESEARCH AND
ENGINEERING

Subj: Machine Language Producing Typewriters for Overseas
Installations (U)

Ref: (a) DD-RE Secret memo of 16 Feb 1962

Reference (a) appointed the Secretary of the Navy executive agent and authorized him to proceed with the development of an acceptable standardized Machine Language Producing Typewriter.

The United States Intelligence Board has determined that a capability of utilizing either 5-level Baudot and 8-level American Standard Code for Information Exchange should be provided but that the requirement for direct built-in conversion capability from one to the other should be abandoned as excessively costly.

Two possible approaches appear feasible. The first utilizes an electric typewriter capable of producing machine processable tapes as a by-product of keyboard operation. It would be engineered to include a basic typewriter and machine language producing and reading modules. Agencies employing 5-level Baudot code would use one set of modules; those employing 8-level American Standard Code, another. Conversion from one code to the other would be accomplished by purchase of the alternative modular set and physical substitution of one for the other. The estimated production cost is \$4,000 each in quantities of 1,000. The second approach would employ a standard mechanical typewriter and would provide only tape output. This unit would be relatively inexpensive and have few maintenance problems. There have been indications, however, that this machine is not sufficiently versatile to meet the requirements of some agencies. Estimated production costs are \$1,000 per unit in lots of 1,000.

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In view of the importance of a solution to the problem, it is proposed to pursue both approaches. Should both units prove acceptable, it appears that there will be customers for each. The Bureau of Ships has held exploratory discussions with several potential contractors and has indicated that development could be completed by late 1964 or 1965, with production in late 1965 or 1966.

Estimates at this time are that the development program will cost about \$2,000,000 of which \$150,000 represents the cost of the mechanical typewriter development. In view of the interdepartmental nature of the potential users of this development, it is recommended that the full development be funded from Department of Defense Emergency Funds. The Technical Development Plan is being initiated and is expected to be ready for DD-RE review and approval prior to the end of the year. The Navy will consult with the United States Communications Security Board in the preparation of the TDP.

JAMES H. WAKELIN, JR.

Copy to:

→ USINTBD

USCOMMSECB

CIA

Department of State

Secretary of the Army

Secretary of the Air Force

cc: Mr. Gussel (8/22/62)

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