

EXHIBIT A  
 TO CONTRACT/PR F19628-74-C-0193

CONTRACT DATA REQUIREMENTS LIST  
 (Line Item 0002)  
 CATEGORY A&S

SYSTEM/ITEM Multics Security Kernel  
 CONTRACTOR Honeywell

| 1. SEQUENCE NUMBER  | 2. TITLE OR DESCRIPTION OF DATA                                      | 3. SUBTITLE | 6. TECHNICAL OFFICE |                  | 10. FREQUENCY | 12. DATE OF 1ST SUBMISSION                | 14. DISTRIBUTION AND ADDRESSES (Address - Regular Copies/Repro Copies)                           |
|---------------------|--|-------------|---------------------|------------------|---------------|---|--|
|                     |  |             | 7. DOD CODE (A)     | 8. INPUT REQ (R) |               |   |  |
| A001                | 2. R&D Contract Status Report<br>3. Quarterly Progress Report        |             | MCI                 |                  | QRTLY         | See 13                                    | 14. ESD/MCI 2/0<br>MITRE-D72 1/0<br>RADC/ISIM 1/0<br>NSA/R12 1/0<br>ARPA/PM 2/0                  |
| DI-A-3002/A-113-1/M | 5. SOW Para 4.0  |             | LT D                | --               | See 16        | 15 days after end of quarter              |  |
| A002                | 2. R&D Contract Status Report<br>3. Monthly Status Report            |             | MCI                 |                  | MTHLY         | See 13                                    | 14. ESD/MCI 2/0<br>MITRE-D72 1/0<br>RADC/ISIM 1/0<br>NSA/R12 1/0                                 |
| DI-A-3002/A-113-1   | 5. SOW Para 4.0  |             | LT D                | --               | 0             | See 16                                    |  |
| A003                | 2. Abstract of New Technology  |             | JA                  |                  | AS REQ        |   | 14. ACO(SEE 16) 2/0<br>ESD/MCI 1/0   |
| DI-A-3028A          | 5. SOW Para 4.0  |             | LT D                | --               | ---           |   |  |
| A004                | 2. Technical Reports<br>3. Interim Report, Multics Security Software |             | MCI                 |                  | OTIME         | See 13                                    | 14. ESD/MCI 10/0<br>ESD/DRI 12/0<br>MITRE-D72 5/0<br>RADC/ISIM 3/0<br>NSA/R12 3/0<br>ARPA/PM 2/0 |
| DI-S-3591A/M        | 5. SOW Para 4.0  |             | LT AD               | --               |               | 30 days after Air Force approval of draft |  |
| A005                | 2. Technical Reports<br>3. Interim Report, Multics Security Software |             | MCI                 |                  | OTIME         | See 13                                    | 14. ESD/MCI 10/0<br>ESD/DRI 12/0<br>MITRE-D72 5/0<br>RADC/ISIM 3/0<br>NSA/R12 3/0<br>ARPA/PM 2/0 |
| DI-S-3591A/M        | 5. SOW Para 4.0  |             | LT AD               | --               |               | 30 days after Air Force approval of draft |  |
| A006                | 2. Technical Reports<br>3. Interim Report, Multics Security Software |             | MCI                 |                  | OTIME         | See 13                                    | 14. ESD/MCI 10/0<br>ESD/DRI 12/0<br>MITRE-D72 5/0<br>RADC/ISIM 3/0<br>NSA/R12 3/0<br>ARPA/PM 2/0 |
| DI-S-3591A/M        | 5. SOW Para 4.0  |             | LT AD               | --               |               | 30 days after Air Force approval of draft |  |

EXHIBIT A  
 CONTRACT DATA REQUIREMENTS LIST  
 (Line Item 0002)

SYSTEM ITEM Multics Security Kernel  
 CONTRACTOR Honeywell

CATEGORY S&E

TO CONTRACT/PR F19628-74-C-0193

| 1. SEQUENCE NUMBER | 2. TITLE OR DESCRIPTION OF DATA             | 3. SUBTITLE  | 4. CONTRACT REFERENCE           | 5. AUTHORITY (Data Item Number) | 6. TECHNICAL OFFICE | 7. DATE OF DATE | 8. FREQUENCY | 9. DATE OF 1ST SUBMISSION | 10. DISTRIBUTION AND ADDRESSEES (Address - Regular Copies/Repro Copies)  |
|--------------------|---|--|---------------------------------|---------------------------------|---------------------|-----------------|--------------|---------------------------|--|
| A005               | Technical Reports                           | 3. Final Report, Multics Security Software   |                                 |                                 | MCI                 | See 13          |              |                           | 14. ESD/MCI 10/0<br>ESD/DRI 12/0<br>MITRE-D72 5/0<br>RADC/ISIM 3/0<br>NSA/R12 3/0<br>ARPA/PM 2/0<br>TOTAL 35/0 |
| DI-S-3591A/M       |   |  | 5. SOW Paragraphs 4.1, 4.2, 4.3 |                                 | LT AD               |                 |              |                           |  |
|                    | REMARKS                                     | Blk 4: This is a final report. Para 2b does not apply. See backup sheets 1&3. Blk 8A: Two copies of draft by 31 Jul 75 to each of MCI, MITRE-D72, and RADC/ISIM. Blk 8D: Distribution in accordance with AFR 80-45, Statement A (MCI is DOD C/O)   |                                 |                                 |                     |                 |              |                           |  |
| A006               | Technical Reports                           | 3. Final Report, Multics Security Integration requirements   |                                 |                                 | MCI                 | See 13          |              |                           | 14. ESD/MCI 10/0<br>ESD/DRI 12/0<br>MITRE-D72 5/0<br>RADC/ISIM 3/0<br>NSA/R12 3/0<br>TOTAL 33/0                |
| DI-S-3591A/M       |   |  | 5. SOW Para 4.4                 |                                 | LT AD               |                 |              |                           |  |
|                    | REMARKS                                     | Blk 4: This is a final report. Para 2b does not apply. See backup sheets 1&3. Blk 8A: Two copies of draft by 31 Jul 75 to each of MCI, MITRE-D72, and RADC/ISIM. Blk 8D: Distribution in accordance with AFR 80-45, statement A, (MCI is DOD C/O)  |                                 |                                 |                     |                 |              |                           |  |
| A007               | Systems Specification                       | 3. Effects of a MULTICS Security Kernel  |                                 |                                 | MCI                 | See 13          |              |                           | 14. ESD/MCI 10/0<br>MITRE-D72 5/0<br>RADC/ISIM 3/0 (See 6)<br>NSA/R12 3/0 (See 6)<br>TOTAL 15/0<br>21/0        |
| DI-E-3101          |   |  | 5. SOW Para 4.4                 |                                 | LT AD               |                 |              |                           |  |
|                    | REMARKS                                     | Blk 8A: Two copies of draft by 31 Jul 75 to each of MCI and MITRE-D-72. Blk 8D: Distribution in accordance with AFR 80-45, statement A, except statement B, Proprietary Information, if such data is included. Blk 14: Distribution only if AFR 80-45, Statement A, applies (MCI is DOD C/O) |                                 |                                 |                     |                 |              |                           |  |
| A008               | Computer Program Development Specifications | 3. MULTICS Security Kernel   |                                 |                                 | MCI                 | See 13          |              |                           | 14. ESD/MCI 10/0<br>MITRE D-72 5/0<br>RADC/ISIM 3/0 (See 6)<br>NSA/R12 3/0 (See 6)<br>TOTAL 15/0<br>21/0       |
| DI-E-3119A         |   |  | 5. SOW Para 4.4                 |                                 | LT AD               |                 |              |                           |  |
|                    | REMARKS                                     | Blk 8A: Two copies of draft by 31 Jul 75 to each of MCI and MITRE D-72. Blk 8D: Distribution in accordance with AFR 80-45, Statement A, except Statement B, Proprietary Information, if such data is included. Blk 14: Distribution only if AFR 80-45, Statement A, applies (MCI is DOD C/O) |                                 |                                 |                     |                 |              |                           |  |

PREPARED BY DATE APPROVED BY

EXHIBIT A

CONTRACT DATA REQUIREMENTS LIST  
(Line Item 0002)

TO CONTRACT/PR FY19628-74-C-0193

SYSTEM/ITEM MULTICS Security Kernel  
CONTRACTOR Honeywell

| 1. SEQUENCE NUMBER | 2. TITLE OR DESCRIPTION OF DATA<br>3. SUBTITLE  | 5. AUTHORITY (Data Item Number) | 6. TECHNICAL OFFICE   |                       | 10. FREQUENCY | 12. DATE OF 1ST SUBMISSION | 14. DISTRIBUTION AND ADDRESSEES<br>(Address - Regular Copies/Repro Copies) |
|--------------------|---|---------------------------------|-----------------------|-----------------------|---------------|----------------------------|--|
|                    |   |                                 | 7. 00250 CODE REQ (A) | 8. 00250 CODE REQ (R) |               |                            |  |
| 1. A009            | 2. Technical Reports<br>3. Technical Notes  | 5. SOW Para 4.0                 | MCI                   |                       | 10. ASREQ     | 12. ASREQ                  | 14. ESD/MCI<br>MITRE/D72<br>RADC/ISM<br>NSA/R12                            |
| 2.                 | DI-S-3591A/M  | 5. SOW Para 4.0                 | LT D                  |                       | 10. --        | 12. C/O.                   | 14. 5/0<br>5/0<br>3/0 (See 16)<br>3/0 (See 16)                             |
| 16. REMARKS        | Blk 4: These are Interim Reports. Para 2a does not apply.<br>Blk 8D: Distribution in accordance with AFR 80-45, Statement A, except Statement B, Proprietary Information, if such data is included. MCI is DOD<br>Blk 14: Distribution only if AFR 80-45, Statement A, applies. Blks 10<br>12: Reports as mutually agreed upon, between MCI and the contractor. |                                 |                       |                       |               |                            |  |
| 1.                 | 2.  | 6.                              | 10.                   |                       | 12.           | 14.                        | 15. TOTAL 16/0   |
| 4.                 | 5.  | 7.                              | 9.                    | 11.                   | 13.           |                            | 15. TOTAL  |
| 16. REMARKS        |   |                                 |                       |                       |               |                            |  |
| 1.                 | 2.  | 6.                              | 10.                   |                       | 12.           | 14.                        | 15. TOTAL  |
| 4.                 | 5.  | 7.                              | 9.                    | 11.                   | 13.           |                            | 15. TOTAL  |
| 16. REMARKS        |   |                                 |                       |                       |               |                            |  |
| 1.                 | 2.  | 6.                              | 10.                   |                       | 12.           | 14.                        | 15. TOTAL  |
| 4.                 | 5.  | 7.                              | 9.                    | 11.                   | 13.           |                            | 15. TOTAL  |
| 16. REMARKS        |   |                                 |                       |                       |               |                            |  |

APPROVED BY *[Signature]*  
 DATE 11 Jun 74  
 PETER R. VECKER, Program Coordinator, MCI  
 PREPARED BY *[Signature]*  
 WILLIAM R. PRICE, 1LT, USAF, MCIT  
 DATE 17 Jun 74

REPORTS FORMAT

I. The heading or cover page of each quarterly progress and technical report shall contain the following information:

|  |   |
|--|---|
| ARPA Order Number 2641                 | Contract Number                                       |
| Program Element Code 62706E/<br>63728F | Principal Investigator<br>and Phone Number            |
| Name of Contractor                     | Project Scientist and<br>Engineer and Phone<br>Number |
| Effective Date of Contract             | Short Title of Work                                   |
| Contract Expiration Date               |   |
| Amount of Contract (\$):               |   |

II. Each report prepared will include the following citation on the cover:

Sponsored by the Air Force Information Systems Technology Applications Office and the Advanced Research Projects Agency  
ARPA Order No. 2641

III. Each publication resulting from ARPA work will contain the following acknowledgement:

This research was supported by the Air Force Information Systems Technology Applications Office (ISTAO), Air Force Systems Command, and the Advanced Research Projects Agency of the Department of Defense and was monitored by ISTAO under Contract No. F19628-74-C-0198.

IV. Disclaimer. Each Technical Report produced under ARPA Orders will have prominently displayed on front of the document, a notice of disclaimer worded substantially as follows:

The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official

BACKUP SHEET NO. 1

policies, either expressed or implied, of the  
Advanced Research Projects Agency, the U.S. Air  
Force, or the U.S. Government.

QUARTERLY STATUS REPORT CONTENTS

The following symbol shall be prominently displayed on the cover of each quarterly status report: Form Approved, Budget Bureau - No. 22-R0293. The initial reporting period will begin on the first day of the month following the effective date of the contract. Quarterly reports will thus cover three months of effort and will not necessarily fall due on calendar quarters. The contractor is expected to notify the government promptly of any major occurrence of a technical or management nature that takes place between the normal submission of reports.

The quarterly status report should be in letter form and, generally, should not exceed three (3) pages in length. Its primary purpose is to inform management of significant events, accomplishments, and problems associated with the progress of work. The report should represent a narrative summary of the work underway and should be prepared to reflect the topics outlined below. Any of the topics below may be covered by noting such comments as "none", "not applicable", or "no significant change" when appropriate. (The quarterly status report should not be used to document technical progress or contain technical charts, graphs or formulas. Such data belongs in technical reports.)

Research Program Plan. A brief statement of the program's objectives and the plan for research should be shown in this item.

Major Accomplishments. A brief description, written in non-technical terms, of any findings or accomplishments that should be brought to the attention of management. The accomplishment of major milestones (where the regular milestone report described below is not required) or the occurrence of technological break-throughs should be reported.

Problems Encountered. This item should include difficulties which have affected, or could affect the progress of the work. These would include problem areas of management significance such as: personnel, facilities, contracts, funds, strikes, disasters, etc. Significant problems of a technical nature should also be included, in brief, non-technical terms.

BACKUP SHEET NO. 2

Fiscal Status

1. Amount currently provided for contract.
2. Expenditures and commitments to date.
3. Estimated funds required to complete the work.
4. Estimated date of completion of work.

Action Required by the Contract Agent. Generally, this item will entail the assistance required in resolving "Problems Encountered".

Future Plans. A brief statement of any significant change which is planned in the course of the work or any new item considered to be of interest to management.

TECHNICAL REPORT SUMMARY

Each Technical Report will include a report summary. This summary, prominently identified, should normally not exceed a few pages. The purpose of the project must be specified, together with a description of important equipment purchased or developed, if any, and the conclusions reached by the contractor. The most important single feature of this summary is that it must be meaningful to readers who are not specialists in the subject matter of the contract.

The requirement for careful preparation cannot be over-emphasized as this summary will often provide the basis for decisions on the continuity of a project. The contractor must recognize that his achievements are quite often surveyed by Department of Defense staff who function at a level that precludes a thorough review of detailed reports.

Where appropriate, references should be made to more detailed sections of the report in order to guide those who may be prepared to spend the additional time required to develop a more complete and professional understanding of the accomplishments.

The report summary should include the following information for each experiment or program:

1. Technical problem
2. General methodology (e.g., literature review, laboratory experiment, survey, field study, etc.)
3. Technical results
4. Implications for further research (if any)
5. Special comments (if any)



GENERAL PROVISIONS

COST-REIMBURSEMENT RESEARCH  
AND DEVELOPMENT CONTRACT  
(With Fixed Fee)

A. The provisions of the contract clauses set forth in the following paragraphs of the Armed Services Procurement Regulation (ASPR) are incorporated into this contract by reference with the same force and effect as though herein set forth in full:

| <u>NUMBER</u> | <u>CLAUSE TITLE</u>  | <u>PARAGRAPH</u>   |
|---------------|--|--------------------|
| 1             | DEFINITIONS (1962 FEB)   | 7-103.1            |
| 2             | ASSIGNMENT OF CLAIMS (1962 FEB)  | 7-103.8            |
| 3             | DISPUTES (1958 JAN)  | 7-103.12(a)        |
| 4             | RENEGOTIATION (1959 OCT)   | 7-103.13(a)        |
| 5             | CONTRACT WORK HOURS AND SAFETY STANDARDS ACT-OVERTIME<br>COMPENSATION (1971 NOV)             | 7-103.16 (DPC No.) |
| 6             | WALSH-HEALEY PUBLIC CONTRACTS ACT (1958 JAN)   | 7-103.17           |
| 7             | EQUAL OPPORTUNITY (1972 AUG)   | 7-103.18(a)        |
| 8             | OFFICIALS NOT TO BENEFIT (1949 JUL)  | 7-103.19           |
| 9             | COVENANT AGAINST CONTINGENT FEES (1958 JAN)  | 7-103.20           |
| 10            | NOTICE AND ASSISTANCE REGARDING PATENT AND<br>COPYRIGHT INFRINGEMENT (1965 JAN)              | 7-103.23           |
| 11            | LISTING OF EMPLOYMENT OPENINGS (1973 SEP)  | 7-103.27           |
| 12            | BUY AMERICAN ACT (1964 MAY)  | 7-104.3            |
| 13            | NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (1958 SEP)  | 7-104.4            |
| 14            | ***FILING OF PATENT APPLICATIONS (1969 DEC)  | 7-104.6            |
| 15            | RIGHTS IN TECHNICAL DATA (1972 APR)  | 7-104.9(a)&(b)     |
| 16            | CONTRACT SCHEDULE ITEMS REQUIRING EXPERIMENTAL,<br>DEVELOPMENTAL OR RESEARCH WORK (1972 APR) | 7-104.9(j)         |
| 17            | TECHNICAL DATA - WITHHOLDING OF PAYMENT (1973 APR)   | 7-104.9(h)         |
| 18            | IDENTIFICATION OF TECHNICAL DATA (1972 APR)  | 7-104.9(1)         |

|    |   |                          |
|----|---|--------------------------|
| 19 | *** MILITARY SECURITY REQUIREMENTS (1971 APR)                             | 7-104.12 &<br>7-204.12   |
| 20 | UTILIZATION OF SMALL BUSINESS CONCERNS (1958 JAN)                         | 7-104.14(a)              |
| 21 | EXAMINATION OF RECORDS BY COMPTROLLER GENERAL (1971 MAR)                  | 7-104.15                 |
| 22 | GRATUITIES (1952 MAR)   | 7-104.16                 |
| 23 | CONVICT LABOR (1949 MAR)  | 7-104.17                 |
| 24 | PRIORITIES, ALLOCATIONS, AND ALLOTMENTS (1971 APR)                        | 7-104.18                 |
| 25 | UTILIZATION OF LABOR SURPLUS AREA CONCERNS (1970 JUN)                     | 7-104.20(a)              |
| 26 | EQUAL OPPORTUNITY PRE-AWARD CLEARANCE OF SUB-CONTRACTS<br>(1971 OCT)      | 7-104.22                 |
| 27 | PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA<br>(1970 JAN)          | 7-104.29(a)              |
| 28 | UTILIZATION OF MINORITY BUSINESS ENTERPRISES (1971 NOV)                   | 7-104.36(a)              |
| 29 | REQUIRED SOURCES FOR MINIATURE AND INSTRUMENT BALL<br>BEARINGS (1971 JUL) | 7-104.38                 |
| 30 | INTEREST (1972 MAY)   | 7-104.39                 |
| 31 | COMPETITION IN SUBCONTRACTING (1962 APR)                                  | 7-104.40                 |
| 32 | AUDIT BY DEPARTMENT OF DEFENSE (1971 APR)                                 | 7-104.41(a)              |
| 33 | * SUBCONTRACTOR COST OR PRICING DATA (1970 JAN)                           | 7-104.42(a)              |
| 34 | ORDER OF PRECEDENCE (1973 APR)  | 7-104.56                 |
| 35 | PAYMENT OF INTEREST ON CONTRACTORS' CLAIMS (1972 MAY)                     | 7-104.82                 |
| 36 | STOP WORK ORDER (1971 APR)  | 7-105.3(c)&7-205.6       |
| 37 | ALLOWABLE COST, FIXED FEE, AND PAYMENT (1973 JUL)                         | 7-203.4(a) (DPC No. 114) |
| 38 | TERMINATION (1973 APR)  | 7-203.10                 |
| 39 | EXCUSABLE DELAYS (1969 AUG)   | 7-203.11                 |
| 40 | COMMERCIAL BILL OF LADING NOTATIONS (1969 DEC)                            | 7-203.14                 |
| 41 | GOVERNMENT PROPERTY (COST REIMBURSEMENT) (1970 SEP)                       | 7-203.21                 |
| 42 | INSURANCE-LIABILITY TO THIRD PERSONS (1966 DEC)                           | 7-203.22                 |
| 43 | ** PAYMENT FOR OVERTIME PREMIUMS (1967 JUN)                               | 7-203.27                 |

|     |  |                |
|-----|--|----------------|
| 44  | GENERAL SERVICES ADMINISTRATION SUPPLY SOURCES (1965 JAN)  | 7-204.28       |
| 45  | AUTHORIZATION AND CONSENT (1961 JAN)   | 7-302.21       |
| 46  | LIMITATION OF COST (1966 OCT)  | 7-402.2(a)     |
| 47  | STANDARDS OF WORK (1959 FEB)   | 7-402.4        |
| 48  | INSPECTION AND CORRECTION OF DEFECTS (1960 MAY)<br>(If this contract calls for only designs, drawings or reports the following Clause shall apply in lieu of Clause 48 above.) | 7-402.5(a)(1)  |
| 48a | INSPECTION (1959 FEB)  | 7-402.5(b)     |
| 49  | SUBCONTRACTS (1973 APR)  | 7-402.8(a)&(b) |
| 50  | LIMITATION ON WITHHOLDING OF PAYMENTS (1959 FEB)   | 7-403.12(a)    |
| 51  | CHANGES (1967 APR)   | 7-404.1        |
| 52  | REPORTS OF WORK (1960 JUL)   | 7-404.6        |

\* If the estimated amount of this contract does not exceed \$100,000., the figure \$100,000. is deleted wherever it appears in Clause No. 33 and the estimated amount of this contract substituted therefor.

\*\* Applicable to contracts in excess of \$100,000. Unless otherwise specified in the Schedule, the amount inserted in Subparagraph (d) is "zero".

\*\*\*Applicable to all classified contracts.

B. A Copy of the text of any General Provision clause incorporated herein by reference will be furnished upon request in writing to the Contracting Officer.

(1) Delayed Delivery of Abstracts of New Technology

Whenever the contractor is authorized under the Patent Rights clause of this contract to file a United States patent application claiming a "Subject Invention," and elects to do so within the time provided in clause, the contractor may delay delivery of the Abstract of New Technology until such time as the contractor delivers the completed disclosure or a copy of the patent application as required by the Patent Rights clause.

(2) Delayed Dissemination of Abstracts of New Technology

When the contractor, if authorized by the Patent Rights clause of this contract, has elected to file a domestic and/or foreign patent application, the Government may, upon request of the contractor, delay dissemination of any Abstract of New Technology for a period not to exceed one year. In exceptional circumstances, additional delay may be authorized upon a showing of good cause.