

Amendment No. 1 to
Contract Data Requirements List
Secure Multics Design, Development and Certification

Modify Data Item A001 as follows:

Block 14: Delete: MITRE/D72 1/0
 Add: JTSA 5/0
 AFDSC/XMS 2/0
 MITRE/D73 1/0

Block 15: Change to read: 14/0

Modify Data Item A002 as follows:

Block 4: Change to read: DI-A-3002/M

Block 14: Delete: MITRE/D72 1/0
 Add: JTSA 5/0
 AFDSC/XMS 2/0
 MITRE/D73 1/0

Block 15: Change to read: 12/0

Block 16: Add the following: Blk 4: See Backup Sheet No. 4

Add the attached Data Item A010 to A022.

ATCH NR _____ TO EXHIBIT A

CONTRACT DATA REQUIREMENTS LIST
 CATEGORY _____ ASSE _____

Line Item 0002 Multics
 SYSTEM/ITEM Security Kernel
 CONTRACTOR Honeywell

TO CONTRACT/PRI19628-74-C-0193

1. SEQUENCE NUMBER	2. TITLE OR DESCRIPTION OF DATA	3. SUBTITLE	5. CONTRACT REFERENCE	6. TECHNICAL OFFICE			10. FREQUENCY	11. AS OF DATE	12. DATE OF 1ST SUBMISSION	13. DATE OF SUBSEQUENT SUBM/EVENT ID	14. DISTRIBUTION AND ADDRESSEES (Addressed - Regular Copies/Repro Copies)	15. TOTAL
				7. LT	8. AD	9. --						
1. A010	2. Program Schedule	3. --	5. SOW Para 4.9.1	7. MCI	8. AD	9. --	10. MONTHLY	11. 0	12. See 16	13. See 16	14. See 16	15. See 16
DI-A-3007/M-103-1												
16. REMARKS												
Blk 8A: Initial submission and schedule change require MCI approval												
Blk 8D: Distribution IAW AFR 80-45, Statement A, DOD C/O MCI.												
Blk 12, 13, 14 & 15: Deliver with Sequence Nos. A001 and A002												
1. A011	2. Agenda-Design Review, Configuration Audits and Demonstrations	3. --	5. SOW Para 4.9.2	7. MCI	8. D	9. --	10. AS REQ	11. --	12. See 16	13. See 16	14. ESD/MCI MITRE/D73 RADC/ISIM NSA/R12 JTSA AFDSC/XMS	15. 2/0 2/0 2/0 2/0 5/0 2/0
DI-A-3029												
16. REMARKS												
Blk 8D: Distribution IAW AFR 80-45, Statement A, DOD C/O MCI.												
Blk 12 & 13: To be submitted 15 days prior to each formal design review (all PDRs and CDRs).												
1. A012	2. Minutes of Formal Reviews, Inspections and Audits	3. --	5. SOW Para 4.9.2	7. MCI	8. D	9. --	10. AS REQ	11. --	12. See 16	13. See 16	14. ESD/MCI MITRE/D73 RADC/ISIM NSA/R12 JTSA AFDSC/XMS	15. 2/0 2/0 2/0 2/0 5/0 2/0
DI-E-3118												
16. REMARKS												
Blk 8D: Distribution IAW AFR 80-45, Statement A, DOD C/O MCI.												
Blk 12 & 13: To be submitted 15 days after each formal design review (all PDRs and CDRs).												
1. A013	2. System Specification for a Prototype Secure Multics	3. System Specification	5. SOW Para 4.6	7. MCI	8. AD	9. --	10. OTIME	11. --	12. See 13 after AF approval of draft	13. See 13 after AF approval of draft	14. ESD/MCI JTSA MITRE/D73 RADC/ISIM NSA/R12 AFDSC/XMS	15. 10/1 5/0 5/0 3/0 3/0 2/0
DI-E-3101												
16. REMARKS												
Blk 8A: Two copies of draft to each of MCI and MITRE by 31 Jan 76 for AF approval.												
Blk 14: Reproducible shall be multilith mats.												
Blk 8D: Distribution IAW AFR 80-45 Statement A, DOD c/o MCI												

DD FORM 1423
 1 JUN 69

REPLACES EDITION OF 1 APR 68, WHICH IS OBSOLETE.

CONTRACT NR _____ TO EXHIBIT A

CONTRACT/PR F19628-74-C-0193

CONTRACT DATA REQUIREMENTS LIST
CATEGORY S, M, E

LINE 176M002, Multics
SYSTEM/ITEM Security Kernel
CONTRACTOR Honeywell

1. QUANTITY	2. TITLE OR DESCRIPTION OF DATA	3. SUBTITLE	5. CONTRACT REFERENCE	6. TECHNICAL OFFICE			10. FREQUENCY	11. AS OF DATE	12. DATE OF 1ST SUBMISSION	13. DATE OF SUBSEQUENT SUBM/EVENT ID	14. DISTRIBUTION AND ADDRESSEES (Addressee - Regular Copies/Repro Copies)	15. TOTAL
				7. DD250 CODE (A)	8. Rep Code (A)	9. Report (A)						
A014	2. Technical Report	3. Security and Integrity Procedures		MCI			ONE/R		See 13	ESD/MCI	10/0	
									13. 30 days after AF approval	ESD/DRI	12/0	
										MITRE/D73	5/0	
										RADC/ISIM	3/0	
										NSA/R12	3/0	
										JTSA	5/0	
										AFDSC/XMS 2/0	5/0	
										TOTAL	40/0	
DI-S-3591A/M	REMARKS											
	Blk 4: This is a final report, para 2b does not apply.											
	Blk 8A: Two copies of draft to each of MCI and MITRE by 30 Sep 75 for AF approval.											
	Blk 8D: Distribution IAW AFR 80-45, Statement A, Dod c/o MCI.											
A015	2. System/Design Trade Study	3. Design Analysis for a Multics Secure Front End Processor		MCI			ONE/R		See 13	ESD/MCI	10/0	
									13. 30 days after AF approval	MITRE/D73	5/0	
										RADC/ISIM	3/0	
										NSA/R12	3/0	
										JTSA	5/0	
										AFDSC/XMS	2/0	
										TOTAL	28/0	
DI-S-3606	REMARKS											
	Blk 8A: Two copies of draft to each of MCI and MITRE by 30 Sep 75 for AF approval.											
	Blk 8D: Distribution IAW AFR 80-45, Statement B, Proprietary Information, Dod c/o MCI.											
	Blk 10: Revisions as necessary.											
LAV16	2. Systems Manual	3. Secure Front End Processor Manual		MCI			ONE/R		See 13	ESD/MCI	10/0	
									13. 30 days after AF approval	MITRE/D73	5/0	
										RADC/ISIM	3/0	
										NSA/R12	3/0	
										JTSA	5/0	
										AFDSC/XMS	2/0	
										TOTAL	28/0	
DI-M-5101/M	REMARKS											
	Blk 4: See attached Backup Sheet No. 5. Blk 8A: Two copies of draft to each of MCI and MITRE by 30 Sep 75 for AF approval.											
	Blk 8D: Distribution IAW AFR 80-45, Statement B, Proprietary Information, Dod c/o MCI.											
	Blk 10: Revisions as necessary.											
LAV17	2. Configuration Item Development Specification	3. 6000 IU Functional Specification		MCI			ONE/R		See 13	ESD/MCI	10/0	
									13. 30 days after AF approval	MITRE/D73	5/0	
										RADC/ISIM	3/0	
										NSA/R12	3/0	
										JTSA	5/0	
										AFDSC/XMS	2/0	
										TOTAL	28/0	
DI-E-3102A/M	REMARKS											
	Blk 4 & 8D: See CDRL Backup Sheet No. 6. Blk 8A: Two copies of draft to each of MCI and MITRE by 31 Jan 76 for AF approval.											
	Blk 10: Revisions as necessary.											

PREPARED BY _____

DATE _____

APPROVED BY _____

PAGE 2 OF 4 PAGES

DD FORM 1423
1 JUN 69

REPLACES EDITION OF 1 APR 68, WHICH IS OBSOLETE.

CONTRACT DATA REQUIREMENTS LIST

LINE ITEM 002 Multics
SYSTEM/ITEM Security Kernel

ATCH NR TO EXHIBIT A

CATEGORY S

CONTRACTOR Honeywell

TO CONTRACT/PR F19628-74-C-0193

DISTRIBUTION AND ADDRESSES
(Address - Regular Copies/Repro Copies)

1. SEQUENCE NUMBER	2. TITLE OR DESCRIPTION OF DATA	3. SUBTITLE	5. CONTRACT REFERENCE	6. TECHNICAL OFFICE	7. Rep Code (A)	8. Report Code (X)	10. FREQUENCY	11. AS OF DATE	12. DATE OF 1ST SUBMISSION	13. DATE OF SUBSEQUENT SUBM/EVENT ID	14. DISTRIBUTION AND ADDRESSES	15. TOTAL
1. A018	2. Technical Report 3. Top Level Security Kernel			MCI			OTIME		See 13	13. 30 days after AF approval of draft	ESD/MCI ESD/DRI MITRE/D73 RADC/ISIM NSA/R12 JTSA	10/1 12/0 5/0 3/0 3/0 5/0
2.	DI-S-3591A										JTSA	5/0
16. REMARKS	Blk 4: This is a final report, para 2b does not apply. Blk 8A: Two copies of draft to each of MCI and MITRE by 31 Jan 76 for AF approval. Blk 8D: Distribution IAW AFR 80-45, Statement A, DOD c/o MCI. Blk 14: Reproducible shall be multilith mats.											
1. A019	2. Technical Report			MCI			OTIME		See 13	13. 30 days after AF approval of draft	ESD/MCI ESD/DRI MITRE/D73 RADC/ISIM NSA/R12 JTSA	10/1 12/0 5/0 3/0 3/0 5/0
2.	DI-S-3591 A/M										JTSA	5/0
16. REMARKS	Blk 4: This is a final report, para 2b does not apply. Blk 8A: Two copies of draft to each of MCI and MITRE by 31 Jan 76 for AF approval. Blk 8D: Distribution IAW AFR 80-45, Statement A, DOD c/o MCI. Blk 14: Reproducible shall be multilith mats.											
1. A020	2. Technical Report			MCI			ONE/R		See 16	13. 30 days after AF approval of draft	ESD/MCI ESD/DRI MITRE/D73 RADC/ISIM NSA/R12 AFDSC/XMS JTSA	10/1 12/0 5/0 3/0 3/0 2/0
2.	DI-S-3591A/M										JTSA	2/0
16. REMARKS	Blk 4: This is a final report, para 2b does not apply. Blk 8A: Two copies of draft to each of MCI and MITRE by 31 Dec 75 for AF approval. Blk 8D: Distribution IAW AFR 80-45, Statement A, DOD c/o MCI. Blk 10: Revisions as necessary. Blk 14: Reproducible shall be multilith mats.											
1. A021	2. Configuration Item Development Specification			MCI			R/ASR		See 13	13. 30 days after AF approval of draft	ESD/MCI MITRE/D73 RADC/ISIM NSA/R12 JTSA	10/1 5/0 3/0 3/0 5/0
2.	DI-E-3102A										JTSA	2/0
16. REMARKS	Blk 8A: Two copies of draft to each of MCI and MITRE for AF approval. Blk 8D: Distribution IAW AFR 80-45, Statement A, DOD c/o MCI. Blk 14: Reproducible shall be multilith mats.											
1. A022	2. Security Protection Unit Specification			MCI			R/ASR		See 13	13. 30 days after AF approval of draft	ESD/MCI MITRE/D73 RADC/ISIM NSA/R12 JTSA	10/1 5/0 3/0 3/0 5/0
2.	DI-E-3102A										JTSA	2/0
16. REMARKS	Blk 8A: Two copies of draft to each of MCI and MITRE for AF approval. Blk 8D: Distribution IAW AFR 80-45, Statement A, DOD c/o MCI. Blk 14: Reproducible shall be multilith mats.											

PREPARED BY

DATE

APPROVED BY

CONTRACT DATA REQUIREMENTS LIST

LINE ITEM 0002 Multics Security Kernel
 SYSTEM/ITEM Honeywell

ATCH NR _____ TO EXHIBIT A

TO CONTRACT/PR F19628-74-C-0193

SEQUENCE NUMBER _____

TITLE OR DESCRIPTION OF DATA _____

SUBTITLE _____

AUTHORITY (Data Item Number) _____

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TECHNICAL OFFICE _____

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DATE OF SUBMISSION _____

DATE OF SUBSEQUENT SUBM/EVENT ID _____

DISTRIBUTION AND ADDRESSEES (Addressee - Regular Copies/Repro Copies)

1. A022

2. Technical Report

3. Semi-Annual Progress Report

DI-S-3591A/M

16. REMARKS

Blk 4: This is an Interim Report, para 2a does not apply, See Backup Sheet No. 1&3. Blk 8A: Two copies of draft to each of MCI and MITRE by 31 Jan 76. Blk 8D: Distribution LAW AFR 80-45, Statement A, DOD c/o MCI.

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Addition to Monthly Status Report

The Monthly Status Report shall include the following financial information:

1. Expenditures for the reporting period showing the amounts spent for each of manpower and material/equipment..
2. Cumulative expenditures from the award of the contract through the end of the reporting period.
3. Amount of funds remaining on contract.

The Contractor shall provide two graphs of expenditures on each Monthly Status Report. These graphs shall each plot money in \$10,000 intervals (y-axis) versus time in months (x-axis). Each graph shall plot expenditures for individual months. The second graph shall plot cumulative expenditures from contract award until the end of each month.

BACKUP SHEET NO. 5

Amplification for Systems Manual

Paragraph 2.c.2 is amplified to include a precise functional specification for the programmed operation of the system. This specification shall include, but need not be limited to, descriptions of addressing modes and of the function of individual operations sufficient for the construction of system software.

BACKUP SHEET NO. 6

The contractor shall produce the "6000 IU Functional Specification" in two separate volumes.

The first volume shall be in the format of a complete specification; however, it may as appropriate reference the second volume. The first volume shall be marked with distribution statement A, IAW AFR 80-45.

The second volume is intended to contain those engineering specifications and other proprietary information relating to the 6000/Series 60 interface and component connections that are proprietary to Honeywell, Inc. The second volume shall be marked with distribution statement B, Proprietary Information, IAW AFR 80-45.

BACKUP SHEET NO. 7

The following is a list of addresses of organizations listed in the CDRL to receive reports.

ESD/MCI	Headquarters-Electronic Systems Division Hq ESD/MCI - Stop 36 L.G. Hanscom AFB, MA 01731
ESD/DRI	Headquarters-Electronic Systems Division Hq ESD/MCI - Stop 22 L.G. Hanscom AFB, MA 01731
MITRE/D73	MITRE Corporation Box 208 Bedford, MA 01730
RADC/ISIM	Hq RADC/ISIM Griffiss AFB Rome, NY 13440
NSA/R12	NSA/R12 Ft. George G. Meade, MD 20755
AFDSC/XMS	Air Force Data Services Center AFDSC/XMS Pentagon Washington, DC 20331
JTSA	Joint Technical Support Activity DCA/JTSA 11440 Isaac Newton Square North Reston, VA 22090
ARPA/PM	Defense Advanced Research Projects Agency ARPA/IPT 1400 Wilson Blvd. Arlington, VA 22209

ALLOWABLE COST AND PAYMENT (1974 APR)

(a) The allowability of costs incurred in the performance of this contract shall be determined by the Contracting Officer in accordance with:

(i) Part 2 of Section XV of the Armed Services Procurement Regulation in effect on the date of this contract; and

(ii) the terms of this contract.

(b) Payments shall be made to the Contractor when requested as work progresses, but not more frequently than bi-weekly, in amounts approved by the Contracting Officer. The Contractor may submit to an authorized representative of the Contracting Officer, in such form and reasonable detail as such representative may require, an invoice or public voucher supported by a statement of cost for the performance of this contract and claimed to constitute allowable cost. For this purpose, except as provided herein with respect to pension contributions, the term "costs" shall include only those recorded costs which result, at the time of the request for reimbursement, from payment by cash, check, or other form of actual payment for items or services purchased directly for the contract, together with (when the Contractor is not delinquent in payment of costs of contract performance in the ordinary course of business) costs incurred, but not necessarily paid, for materials which have been issued from the Contractor's stores inventory and placed in the production process for use on the contract, for direct labor, for direct travel, for other direct inhouse costs, and for properly allocable and allowable indirect costs, as is shown by records maintained by the Contractor for purposes of obtaining reimbursement under Government contracts plus the amount of progress payments which have been paid to Contractor's subcontractors under similar cost standards. In addition, when pension contributions are paid by the Contractor to the retirement fund less frequently than quarterly, accrued costs therefor shall be excluded from indirect costs for payment purposes until such costs are paid. If pension contributions are paid on a quarterly or more frequent basis, accruals therefor may be included in indirect costs for payment purposes provided that they are paid to the fund within thirty (30) days after the close of the period covered. If payments are not made to the fund within such thirty-day period, pension contribution costs shall be excluded from indirect cost for payment purposes until payment has been made. The restriction on payment more frequently than bi-weekly and the requirement of prior payment for items or services purchased directly for the contract shall not apply where the Contractor is a small business concern.

(c) Promptly after receipt of each invoice or voucher and statement of cost, the Government shall, except as otherwise provided in this contract, subject to the provisions of (d) below, make payment

thereon as approved by the Contracting Officer. After payment of an amount equal to eighty percent (80%) of (the Government's share of) the total estimated cost of performance of this contract set forth in the Schedule, the Contracting Officer may withhold further payment on account of allowable cost until a reserve shall have been set aside in an amount which he considers necessary to protect the interests of the Government, but such reserve shall not exceed one percent (1%) of (the Government's share of) such total estimated cost or one hundred thousand dollars (\$100,000), whichever is less.

(d) At any time or times prior to final payment under this contract, the Contracting Officer may have the invoices or vouchers and statements of cost audited. Each payment theretofore made shall be subject to reduction for amounts included in the related invoice or voucher which are found by the Contracting Officer on the basis of such audit, not to constitute allowable cost. Any payment may be reduced for overpayments, or increased for underpayments, on preceding invoices or vouchers.

(e) On receipt and approval of the invoice or voucher designated by the Contractor as the "completion invoice" or "completion voucher" and upon compliance by the Contractor with all the provisions of this contract (including, without limitation, the provisions relating to patents and the provisions of (f) below), the Government shall promptly pay to the Contractor any balance of allowable cost, which has been withheld pursuant to (c) above or otherwise not paid to the Contractor. The completion invoice or voucher shall be submitted by the Contractor promptly following completion of the work under this contract but in no event later than one (1) year (or such longer period as the Contracting Officer may in his discretion approve in writing) from the date of such completion.

(f) The Contractor agrees that any refunds, rebates, credits, or other amounts (including any interest thereon) accruing to or received by the Contractor or any assignee under this contract shall be paid by the Contractor to the Government, to the extent that they are properly allocable to costs for which the Contractor has been reimbursed by the Government under this contract. Reasonable expenses incurred by the Contractor for the purpose of securing such refunds, rebates, credits, or other amounts shall be allowable costs hereunder when approved by the Contracting Officer. Prior to final payment under this contract, the Contractor and each assignee under this contract whose assignment is in effect at the time of final payment under this contract shall execute and deliver:

- (i) an assignment to the Government, in form and substance satisfactory to the Contracting Officer, of refunds, rebates, credits, or other amounts (including any inter-

est thereon) properly allocable to costs for which the Contractor has been reimbursed by the Government under this contract; and

(ii) a release discharging the Government, its officers, agents and employees from all liabilities, obligations, and claims arising out of or under this contract, subject only to the following exceptions:

- (A) specified claims in stated amounts or in estimated amounts where the amounts are not susceptible of exact statement by the Contractor;
- (B) claims, together with reasonable expenses incidental thereto, based upon liabilities of the Contractor to third parties arising out of the performance of this contract; provided, that such claims are not known to the Contractor on the date of the execution of the release; and provided further that the Contractor gives notice of such claims in writing to the Contracting Officer not more than six (6) years after the date of the release or the date of any notice to the Contractor that the Government is prepared to make final payment, whichever is earlier; and
- (C) claims for reimbursement of costs (other than expenses of the Contractor by reason of his indemnification of the Government against patent liability), including reasonable expenses incidental thereto, incurred by the Contractor under the provisions of this contract relating to patents.

(g) Any cost incurred by the Contractor under the terms of this contract which would constitute allowable cost under the provisions of this clause shall be included in determining the amount payable under this contract, notwithstanding any provisions contained in the specifications or other documents incorporated in this contract by reference, designating services to be performed or materials to be furnished by the Contractor at his expense or without cost to the Government.