NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY MAC VALIDATION SYSTEM (MVS) SUCCESSFUL VALIDATIONS

(as of March 17, 1993)

1. ACS Communications Systems Inc.
   480 Spring Park Place
   Suite 900
   Herndon, VA 22070
   Personal Computer Security Module, PCSM-T
   PCSM Binary Authentication Software, Version 2.0 BINARY OPTION (FIPS 113)
   May 16, 1986
   Don Cole, (703) 471-0892

2. Federal Reserve Bank of Cleveland
   P.O.B. 6387
   Cleveland, Ohio 44101
   Jones Futurex PC Encryption Board
   FRS PC MAC Processor
   BINARY OPTION (FIPS 113)
   CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
   CODED CHARACTERS; ENTIRE MESSAGE; EDITING
   October 28, 1986
   Dave Rich, (216) 579-2221

   Mountain View, CA
   Remote Crypto Facility
   Software Version 3.0
   BINARY OPTION (FIPS 113)
   January 16, 1987
4. Codercard, Inc.

1231 East Dyer Road, Suite 200
Santa Anna, CA 92705
Personal Computer Security Adaptor, CPS-300
Argus, Version 1 Software
BINARY OPTION (FIPS 113)
CODED CHARACTERS, ENTIRE MESSAGE, NO EDITING
CODED CHARACTERS, ENTIRE MESSAGE, EDITING
CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS, NO EDITING
CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS, EDITING

February 26, 1987

Bob Gray, (714) 557-3444

(rights transferred to LITRONICS Information Systems on Sept. 12, 1990)

5. Jones Futurex, Inc.

3715 Atherton Road
Rocklin, CA 95765
MAC-310 Message Authenticator
BINARY OPTION (FIPS 113)

February 27, 1987

Gerry Scott, (916) 632-3456

6. Infomax Securities

6974 Sandpiper Place
Carlsbad, CA 92009
Protecom Crypto Processor
Protecom Device Driver & Utilities, Version 0.5
BINARY OPTION (FIPS 113)

March 27, 1987

David Howard, (619) 931-8787

7. Inter-Quest, Inc.

16508 E. Laser Drive
Fountain Hills, AZ 85268
PORT-OF-ENTRY Computer Security System Vers. 1.1 (Software)
BINARY OPTION (FIPS 113)
May 8, 1987
Charles Redding, (602) 948-2560

8. Infomax Securities

6974 Sandpiper Place
Carlsbad, CA 92009
Protecom Crypto Processor
Protecom Device Driver & Utilities, Version 0.6
BINARY OPTION (FIPS 113)
CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
CODED CHARACTERS; ENTIRE MESSAGE; EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING

May 11, 1987
David Howard, (619) 931-8787

9. Digitech Telecommunications, Inc.

342 Madison Avenue, Suite 2010
New York, NY 10017
Softnet Software, Version 1
BINARY OPTION (FIPS 113)

June 29, 1987
James J. McKeeff, (212) 557-7230

10. Sytek, Inc.

1225 Charleston Road
San Jose, CA 94043
MACbox
BINARY OPTION (FIPS 113)
CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
CODED CHARACTERS; ENTIRE MESSAGE; EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING

June 30, 1987
11. Inter-Quest, Inc.

16508 East Laser Drive
Fountain Hills, AZ 85268
PORT-OF-ENTRY Computer Security System Vers 1.2 (Software)
BINARY OPTION (FIPS 113)
CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
CODED CHARACTERS; ENTIRE MESSAGE; EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING

August 17, 1987
Charles Redding, (602) 948-2560

12. Racal-Guardata Limited

Richmond Court
309 Fleet Road
Fleet, Hampshire GU13 8BU
England
PC Security Module, RGL 600

RGL 600 Host PC C Driver Software, Version: V1.01 BINARY OPTION (FIPS 113)

November 20, 1987
Paul Halliden, (252) 622144, England

13. The Chase Manhattan Bank, N.A.

1 Seaport Plaza, 11th Floor
New York, New York 10038
C-FIMAS 16 Software, Version 1.0
BINARY OPTION (FIPS 113)
CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
CODED CHARACTERS; ENTIRE MESSAGE; EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING

December 8, 1987
14. Atalla Corporation

2304 Zanker Road
San Jose, CA 95131
Personal Computer Module, CPCM
CPCM.HEX Software, Version OA 13-2043-01
BINARY OPTION (FIPS 113)

January 11, 1988

Dale Hopkins, (408) 435-8850

15. GN Telematic, Inc.

46 Manning Road
Billerica, MA 01821
safeMatic 2000, KB76-17527
BINARY OPTION (FIPS 113)

January 12, 1988

Poul Hebsgaard, (617) 667-8644

16. GN Telematic, Inc.

46 Manning Road
Billerica, MA 01821
safeMatic 2000, KB76-17527
Coded Character Set Processing Software, Model KB77-17012, Version A
BINARY OPTION (FIPS 113)

CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
CODED CHARACTERS; ENTIRE MESSAGE; EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING

February 3, 1988

Poul Hebsgaard, (617) 667-8644
17. AeT Research

675 North First Street, Suite 800
San Jose, CA 95112
MACbox
BINARY OPTION (FIPS 113)
CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
CODED CHARACTERS; ENTIRE MESSAGE; EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; NO EDITING
CODED CHARACTERS; EXTRACTED MESSAGE ELEMENTS; EDITING

August 8, 1988

(originally validated on June 30, 1987 as a Sytek, Inc. device)

Linden Feldman, (408) 275-0820

18. Atalla Corporation

2304 Zanker Road
San Jose, CA 95131
Personal Computer Module, MN-40-249
CPCM.HEX Software, Version OE 13-2043-00
BINARY OPTION (FIPS 113)

September 26, 1988

Dale Hopkins, (408) 435-8850

19. Cypher Communications Technology, Inc.

4520 East-West Highway, Suite 550
Bethesda, MD 20814
CYCOM SCI AX3
5.01, Version 10084002
BINARY OPTION (FIPS 113)

February 2, 1989

Angel Bailey, (301) 652-6790

20. Dial-Guard

55 Koch Road/PO Box 7045
21. Okiok Data

3945 St. Martin
Laval, Quebec, Canada H7T 1B7
RAC/M
FAS-PACK, Version 1.0
BINARY OPTION (FIPS 113)
CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
CODED CHARACTERS; ENTIRE MESSAGE; EDITING
CODED CHARACTERS; EXTRACTED MESSAGE; NO EDITING
CODED CHARACTERS; EXTRACTED MESSAGE; EDITING

April 24, 1989
Claude Vigeant, (514) 681-1681

22. Racal-Guardata, Inc

480 Spring Park Place, Suite 900
Herndon, VA 22070
X9 Crypto Server
BINARY OPTION (FIPS 113)
CODED CHARACTERS; ENTIRE MESSAGE; NO EDITING
CODED CHARACTERS; EXTRACTED MESSAGE; NO EDITING
CODED CHARACTERS; ENTIRE MESSAGE; EDITING
CODED CHARACTERS; EXTRACTED MESSAGE; EDITING

June 1, 1990
Brian Bucholz, (703)471-0892

23. LITRONIC Information Systems

2950 Redhill Avenue
Costa Mesa, CA 92626
Personal Computer Security Adapter
24. IBM Corporation

Dept. 65K/B204-3
1001 W.T. Harris Blvd.
Charlotte, NC 28257
4755 Cryptographic Adapter
BINARY OPTION (FIPS 113)

October 15, 1990

Roger Evans, (704) 594-7060

25. IBM Corporation

Dept. 65K/B204-3
1001 W.T. Harris Blvd.
Charlotte, NC 28257
4754 Security Interface Unit
BINARY OPTION (FIPS 113)

October 15, 1990

Roger Evans, (704) 594-7060

26. IBM Corporation

Dept. 65K/B204-3
1001 W.T. Harris Blvd.
Charlotte, NC 28257
IBM Personal Security Card
BINARY OPTION (FIPS 113)

October 15, 1990
Roger Evans, (704) 594-7060

27. Cypher Communications Technology, Inc.

15200 Shady Grove Rd., Suite 350
Rockville, MD 20850
CYCOM SCI/SL 96 AX5
5.03, Version 10084012
BINARY OPTION (FIPS 113)

December 19, 1990
Angel Bailey, (301) 590-9314

28. Cypher Communications Technology, Inc.

15200 Shady Grove Rd., Suite 350
Rockville, MD 20850
CYCOM SCI 192 AX7
5.05, Version 10084020
BINARY OPTION (FIPS 113)

January 10, 1991
Angel Bailey, (301) 590-9314

29. Digital Equipment Corporation

Digital Drive - MK01-2/B06
Merrimack, NH 03054
PIN Pad 201 SMD
Model: P003-120-XX
BINARY OPTION (FIPS 113)

March 25, 1991
Steve Lawrence, (603) 884-3445

30. Information Security Corporation

1141 Lake Cook Road, Suite D
Deerfield, IL 60015
DES Module used in SpyProof!
BINARY OPTION (FIPS 113)
31. Digital Signature

Validated by Information Security Corporation
1115 N. East Avenue
Oak Park, IL 60302
DES Module used in CryptMaster (3.20) and SecretAgent (1.00)
BINARY OPTION (FIPS 113)

32. The Exchange Systems

15395 SE 30th Place
Bellevue, WA 98007-6594
PCE-3000 (IBM PS/2 Microchannel)
BINARY OPTION (FIPS 113)
CODED CHARACTERS, ENTIRE MESSAGE, NO EDITING
CODED CHARACTERS, ENTIRE MESSAGE, EDITING
CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS, NO EDITING
CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS, EDITING

33. The Exchange Systems

15395 SE 30th Place
Bellevue, WA 98007-6594
PCE-1000 ISA Adaptor
BINARY OPTION (FIPS 113)
CODED CHARACTERS, ENTIRE MESSAGE, NO EDITING
CODED CHARACTERS, ENTIRE MESSAGE, EDITING
CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS, NO EDITING
CODED CHARACTERS, EXTRACTED MESSAGE ELEMENTS, EDITING

34. Racal Guardata, Inc.