WATCHDOG®



PC Data Security







The **Watchdog** PC data security system provides:

- ID and password control to prevent unauthorized access.
- A security administration option to allow or require users to periodically change their own passwords.
- Permissions that govern the scope of user activities, such as whether a user may read files, write to files, create and delete files, or use the DOS commands.
- Integrated access control and automatic data encryption, which is transparent to authorized users, for the strongest security available.
- Directory-by-directory protection that allows control over which users may access particular directories.
- Protection against unauthorized attempts to access hard-disk data.
- Protection against accidental or malicious formatting of the fixed disk.
- Audit trail to record user activity by user ID, project ID, directory accessed, program executed, date, and time.
- Audit trail records system use and security violations for review on-screen or in printed reports.
- Audit trail report formats may be saved as report sets and reused as necessary.
- System library for efficient storage of programs that are used from more than one area (directory).
- Area Menus to give convenient selection of directories and programs.
- Help screens for on-the-spot user guidance.
- Electronic Mailbox facility to send messages between system users.



Watchdog is a better buy.

PC Products, March 1985

Watchdog is designed with today's complex software in mind...

A sophisticated, comprehensive package that takes security very seriously.

Lotus, October 1985

Watchdog provides an efficient security system...that is not encumbersome or bothersome to use.

Datapro Report on Information Security, October 1985

Watchdog is the PC data security system of choice at major corporations, medium and small sized businesses, Government agencies, and the Armed Forces. Fischer-Innis Systems Corporation, one of America's foremost developers and marketers of software products for IBM mainframe computers, stands behind Watchdog's success.

Fischer-Innis Systems Corporation's commitment to product support is unsurpassed in the industry. Our Customer Support Group will respond quickly to your questions and will provide whatever level of assistance you require. Additional ongoin maintenance plans are available. Such plans allow us to establish and maintain close relationships between our company and the individual and corporate users of our software products.



You've invested in a high-invest in a high-quality data

Watchdog is the data security system for your PC. Access control, data encryption, separate levels of permissions, and audit trails are integrated in one easy-to-use package to provide the most effective security software for protecting data on your hard disk.

The same features that make PCs flexible and easy-to-use also make the important data they store vulnerable to theft and misuse. Watchdog ensures control and protection, while allowing you to maintain the versatility and power of the PC.



ACCESS CONTROL Watchdog's first line of defense is access control. To log on to the PC, you must enter a personal user ID and password. Without these, Watchdog denies access to all programs and files stored in protected directories. You may also be required to enter a project ID.

As a security administration option, users may be allowed or required to periodically change their own passwords. Frequently changing passwords can enhance system security.

Watchdog also guards against improper attempts to access data on a hard disk by: preventing boot-up with DOS on a floppy diskette to access the hard disk; interrupting the boot-up of the hard disk; or employing utility programs designed to access hard-disk data.

quality PC... Now security system.

FORMAT CONTROL With Watchdog, you can control the use of the FORMAT command. Concern about destruction of data by accidental or malicious formatting is eliminated.



AREA MENU SYSTEM In Watchdog, protected DOS directories are referred to as "areas." Up to 256 areas may be listed on full-screen menus for convenient selection. The menus help you organize and manage your information, as well as protect it. A common approach to area assignment is to give each user one or more personal areas for securing their private files. Then, additional areas may be designated for files and programs that are to be shared among groups of users, for example, word processing, spreadsheet, or data base management programs.

Access to each area is controlled. Watchdog will allow you into an area, but only after first checking your authorization.



For each area selection on the menu, you may create submenus to list programs, subdirectories, or batch files in that area. Programs selected from submenus will begin executing automatically, if you wish. Submenus may be nested, with no limit on the number you may create for each area.

Once you are permitted into an area, a submenu displays selections for each program in that area. Watchdog continuously monitors all movement on the PC from the point of log-on, and will not allow you to move from one area to another without first checking your authorization. You may access multiple areas simultaneously to facilitate copying information between areas, or to allow you to use the concurrent processing offered by multitasking packages.

As an alternative to working from the menu system, applications may be seamlessly embedded into *Watchdog* so that they begin executing as soon as the user logs on.

PERMISSIONS Multiple levels of permissions strengthen Watchdog's security, at the same time making Watchdog protection more flexible. Permissions are options that you select to determine the "span of control" users will have when working with the system. Permissions are set on three levels: for the system as a whole, for each area (DOS directory), and individually for each user.

System permissions regulate systemwide conditions, such as whether users may edit the AUTOEXEC.BAT file or the CONFIG.SYS file, or whether users will be automatically logged off the PC after a specified inactive period.

Area permissions and User permissions work in combination to determine the kinds of activities a particular user may perform in a given directory. Watchdog's flexible system of permissions lets you establish customized protection for your particular needs. Profiles, which are set up for each user and each area, allow Watchdog to cross-reference your ID and password with the permissions you have

in the areas you may access. Watchdog checks profiles each time you select an area, and allows only those operations permitted to you in that area.

For example, you might store spreadsheet templates in a "read-only" directory so that users may access them but may not modify them. Or, you might designate that the permissions associated with data entry files (such as personnel files or payroll files) be determined not only by the directory in which they are stored, but by which user is accessing them. This way, clerks may add new information to existing files, but may not read, create, or delete files. The manager may, on the other hand, read and write to files, as well as create and delete files.

For added protection, permissions also govern whether users may have access to the DOS commands from within a specific directory.



AUTOMATIC DATA ENCRYPTION Watchdog's data encryption provides the highest level of security available. With encryption, the protection is built into the data itself. Keys are set up once by the System Administrator and are totally transparent to users. Users do not have to memorize, record, or enter keys to encrypt or decrypt data files.

Watchdog uses a proprietary encryption algorithm. The U.S. Department of State has made Watchdog subject to the same export control restrictions as DES (the Data Encryption Standard algorithm).

6



When encryption is active for an area, all programs and files will reside on the disk in encrypted form until retrieved by an authorized user. Once selected, a program or file is automatically unscrambled and presented in plaintext form. When work is completed, the data is automatically returned to a scrambled form for protection. This ensures security because you cannot neglect to encrypt the data. Data is protected by default.

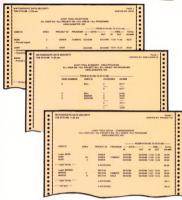
Encryption and decryption are transparent. They are performed in the background, and are so fast that there is no noticeable slowdown in response time.

The System Administrator can selectively activate the encryption feature in each area on the system by specifying an encryption key.



AUDIT TRAILS Watchdog records an audit trail to monitor system use. Detail, summary, or work-session information may be reviewed on-screen, or in printed form. Over 100 formats are available for customized reporting.

You may sort audit trail data by user ID, area, date and time, program executed, and project ID. Details of sensitive system activity (such as use of Watchdog's encrypted backup and restore utilities), and of security violations (such as attempts to illegally change from one directory to another) are also recorded by the audit trail. A complete history file can be processed with a data base manager or report generator to prepare custom reports.



Report formats may be saved and reused. This feature is handy when you must prepare similar audit trail reports weekly or monthly.

Although security is the main purpose of the audit trail feature, the system usage information collected by Watchdog has other applications. For instance, usage data sorted by project ID can help you allocate costs to individual jobs or customers; and the record of program executions can help you decide which programs to keep on the hard disk, and which seldom-used programs would be more economically stored on floppy diskettes.

MALBOX A flexible mail system lets you exchange confidential messages with other users. Group IDs may be created to simplify sending messages to more than one user. Menus and word-processor-like editing features make the Mailbox easy to use.

SYSTEM LIBRARY The system library feature provides for efficient use of your hard-disk space, while ensuring the security of your data. System libraries are directories set up to store programs and files that will be used from many areas on your system. Watchdog allows these programs and files to be resident in one library directory, and at the same time to be

automatically accessed from anywhere on the system. Of course, Watchdog continues to monitor permissions and will allow only authorized users to access system libraries.

For example, your spreadsheet package may be placed in a system library where several users may access it. Meanwhile, you may keep personal files that you process using the spreadsheet software in your own private area. The benefit is twofold: the spreadsheet resides on the hard disk in only one directory for efficient storage, and your private files remain secure.

SYSLIB, a directory set up as a system library, is available to hold programs and files that must be accessible to all users at all times. Watchdog's SYSLIB command directs library searches and allows not only program execution commands to be called, but also overlay and related data files.

STREAMLINED INSTALLATION AND

ADMINISTRATION It is easy to put Watchdog up on your system. Watchdog may be loaded onto the hard disk or administered from the original distribution diskettes. You do not have to format your hard disk, or remove any data stored there before you begin. You may extend Watchdog security to existing directories by selecting them from a list of directories that are already on the hard disk. Protection is extended automatically to each chosen directory (and to any files and subdirectories it may contain) without having to move or copy files, and without having to create new directories. New directories may be created under Watchdog's protection just as easily.

If you wish, take a "phased approach." Secure your most sensitive data first; your other files and programs will operate as before. Then, include this other information under *Watchalog's* protection when it is necessary or convenient.

Setting system security characteristics, adding users, establishing new protected areas, and modifying file access permissions are all accomplished through *Watchdog*'s efficient System. Area, and User profile system.

WATCHDOG® SYSTEM REQUIREMENTS

MICROCOMPUTER:

- IBM® PC AT™
- IBM PC 370
 IBM PC XT™
- IBM PC 3270
- IBM PC 327
- AT&T PC 6300™
- COMPAQ®
- ITT XTRA™
- ZENITH Z-150 PC™
- Any other 100% IBM PC-compatible machine.

DISK DRIVE:

- Diskette drive, 5-1/4" double sided, double density (1 required)
- Hard disk drive (1 required). May be internal bard disk or add-on mass-storage unit.

MONITOR:

Monochrome or color display.

PRINTER:

 Any PC-compatible printer with 80 or more columns.

OPERATING SYSTEM:

- PC DOS 2.0 or higher
- MS DOS™ 2.0 or higher (supported PC compatibles).

MINIMUM CONFIGURATION:

- 256 Kbytes RAM
- One diskette drive
- One hard disk drive
 - One monitor.

WATCHDOG is a registered trademark of Fischer-Innis Systems

IBM is a registered trademark of International Business Machines

MS-DOS is a trademark of Microsoft Corporation

Corporation
AT and XT are trademarks of International Business Machines Corporation
AT at PC 5300 is a trademark of AT&T Information Systems, incorporated.
COMPAO is a registered trademark of CDMPAO Computer Corporation.
ITT XTRA is a trademark of ITT Corporation.
ZENITH 2-150 PC is a trademark of ZENITH Data Systems.





You've invested in a high-quality microcomputer to process your data. . . Now invest in a high-quality data security system to protect it. You can put Watchdog on the job today.



4175 MERCHANTILE AVENUE • NAPLES, FLORIDA 33942

800 237-4510 (TOLL FREE) 👺 813 793-1500 (In Florida)