PACKAGE ID - 000642IBMPC00 PC-EASI

KWIC TITLE - Adversary Sequence Interruption Model

AUTHORS - Chapman, L.D.
Sandia National Labs., Albuquerque, NM (United States)

Harlan, C.P.
Sandia National Labs., Albuquerque, NM (United States)

LIMITATION CODE -UNL **AUDIENCE CODE -** UNL

COMPLETION DATE - 12/18/1985 **PUBLICATION DATE -** 12/18/1985

DESCRIPTION - PC EASI is an IBM personal computer or PC-compatible version of an analytical technique for measuring the effectiveness of physical protection systems. PC EASI utilizes a methodology called Estimate of Adversary Sequence Interruption (EASI) which evaluates the probability of interruption (PI) for a given sequence of adversary tasks. Probability of interruption is defined as the probability that the response force will arrive before the adversary force has completed its task. The EASI methodology is a probabilistic approach that analytically evaluates basic functions of the physical security system (detection, assessment, communications, and delay) with respect to response time along a single adversary path. It is important that the most critical scenarios for each target be identified to ensure that vulnerabilities have not been overlooked. If the facility is not overly complex, this can be accomplished by examining all paths. If the facility is complex, a global model such as Safeguards Automated Facility Evaluation (SAFE) may be used to identify the most vulnerable paths. PC EASI is menu-driven with screen forms for entering and editing the basic scenarios. In addition to evaluating PI for the basic scenario, the sensitivities of many of the parameters chosen in the scenario can be analyzed. These sensitivities provide information to aid the analyst in determining the tradeoffs for reducing the probability of interruption. PC EASI runs under the Micro Data Base Systems' proprietary database management system Knowledgeman. KMAN provides the user environment and file management for the specified basic scenarios, and KGRAPH the graphical output of the sensitivity calculations. This software is not included. Due to errors in release 2 of KMAN, PC EASI will not execute properly; release 1.07 of KMAN is required.

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - Software Abstract; Media Directory; SAND85-1105; Media Includes Object, Sample Problem Input, Sample Problem Output; 1 5.25 Diskette

COMPUTER - IBM PC

OPERATING SYSTEMS - DOS 2.0

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PROGRAMMING LANGUAGES - Knowledgeman V1.07

SOURCE CODE AVAILABLE (Y/N) - Y

HARDWARE REQS - 256K RAM and two disk drives or hard disk

REFERENCES - L.D. Chapman and C. P. Harlan, PC EASI Estimate of Adversary Sequence Interruption on an IBM PC, SAND85-1105, October 1985.

ABSTRACT STATUS - Abstract first distributed December 1985. IBM PC version submitted October 1985.

SUBJECT CLASS CODE - PM

KEYWORDS -
COMPUTER PROGRAM DOCUMENTATION
P CODES
PERSONAL COMPUTERS
SECURITY
DATA BASE MANAGEMENT
EFFICIENCY
SAFEGUARDS
EVALUATION
PHYSICAL PROTECTION DEVICES

EDB SUBJECT CATEGORIES -
990200 990300

SPONSOR - DOE/DP

PACKAGE TYPE - AS - IS