

BIM-ALERT/VSE BIM-ALERT/CICS Read Before Installing

Release 5.1C

April 11, 2003

Thank you for choosing BIM-ALERT for your security needs. The BIM-ALERT 5.1 release supports VSE/ESA 2.3 through VSE/ESA 2.7 running CICS/VSE 2.3 and CICS/TS 1.1.

This document describes requirements for and enhancements to version 5.1 of BIM-ALERT/VSE and BIM-ALERT/CICS.

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Overview

Complete VSE/ESA 2.4/2.5/2.6/2.7 Support

BIM-ALERT 5.1 fully exploits the new External Security Manager (ESM) environment of VSE/ESA 2.4 and later.

BIM-ALERT/VSE is activated during the ESM initialization process, and is anchored in the RACROUTE Communication Vector Table (RCVT) supplied by IBM.

BIM-ALERT/CICS has been upgraded to include a Transaction Server Security Monitor to receive and process all RACROUTE security calls issued by the new CICS/TS 1.1 Transaction Server.

Components of BIM-ALERT/VSE and BIM-ALERT/CICS Version 5.1C

The following table lists the BIM-ALERT products on the installation tape, their version numbers, release status (production or beta), and system version requirements.

Component	Version	Status	System Version Requirements
BIM-ALERT/VSE	5.1C	Production	VSE/ESA 2.3, 2.4, 2.5, 2.6 or 2.7
BIM-ALERT/CICS	5.1C	Production	CICS/VSE 2.3 or CICS/TS 1.1

About This Document

This document provides the following information about each component product on the BIM-ALERT/VSE and BIM-ALERT/CICS version 5.1 installation tape:

- Compatibility Issues
- Product enhancements

It is recommended that you review this document prior to installing or reinstalling BIM-ALERT/VSE or BIM-ALERT/CICS.

Install in a Test Environment

You should install and perform initial evaluation of the BIM-ALERT/VSE or BIM-ALERT/CICS products in a *test* environment. This practice ensures early detection of any possible conflicts with other vendor products.

For Detailed Installation Instructions

After you review this document, turn to the *BIM-ALERT Installation and Operations Guide* for detailed installation instructions.

If Installing Both CICS Versions of BIM-ALERT/CICS

If you install both the CICS/VSE 2.3 and CICS/TS 1.1 versions of BIM-ALERT/CICS using MSHP, you will receive two messages from MSHP during the library restore process.

```
M231D INSTALLATION WILL OVERWRITE PRODUCT ACV51C. ENTER "DELETE" OR "KEEP"
```

```
M231D INSTALLATION WILL OVERWRITE PRODUCT ALC515. ENTER "DELETE" OR "KEEP"
```

You should respond “KEEP” to both of these messages. This will tell MSHP to keep history file entries for both the CICS/VSE 2.3 and the CICS/TS 1.1 versions of BIM-ALERT/CICS.

If You Encounter Problems Installing BIM-ALERT

If you have any problems installing BIM-ALERT/VSE or BIM-ALERT/CICS, contact CSI International Technical Support by calling (800) 795-4914.

BIM-ALERT/VSE

Compatibility Issues for Current Users

Introduction

This section describes changes to BIM-ALERT/VSE for version 5.1 that you should be aware of if you are currently running BIM-ALERT/VSE 5.0.

Logger Now Shared With BIM-ALERT/CICS

The BIM-ALERT/VSE logger facility AXPL1 has been enhanced to include support for BIM-ALERT/CICS. Many changes were made to the internals of the logger, including updates to the Log Queue Manager (LQM) and Log File I/O (LIO) sub-tasks.

The logger and its associated report and utility programs have been *renamed*. All job streams that are currently used to start and manage the BIM-ALERT/VSE logger will need to be updated to use these new program names. Please refer to the *BIM-ALERT Installation and Operations Guide* for additional information.

Product Activation Changed

Prior to BIM-ALERT/VSE 5.1, the AXPI1 program was used to activate BIM-ALERT/VSE. If you are upgrading BIM-ALERT/VSE in a VSE/ESA 2.3 environment, you will need to change the activation program name from AXPI1 to ALRT001.

When running under VSE/ESA 2.4 or above, BIM-ALERT/VSE is activated as part of the External Security Manager (ESM) initialization process. A control card will be read during the ESM initialization process where you will specify what components of BIM-ALERT you wish to activate.

Please refer to the *BIM-ALERT Installation and Operations Guide* for additional information.

**Restrictions On
AXPI1 Functions**

When running under VSE/ESA 2.4 or above, the ACTIVate and DEACTivate functions of the AXPI1 utility program are no longer valid. This change was caused by the introduction of the External Security Manager environment (ESM). If you have the need to disable BIM-ALERT/VSE security after it is activated, you will need to put the system in monitor mode instead. Please refer to the *BIM-ALERT/VSE Security Administrator's Guide* for additional information.

**VSE/ESA Version
Restriction**

BIM-ALERT/VSE 5.1C will only run in the VSE/ESA 2.3, 2.4, 2.5, 2.6 and 2.7 operating system environments. Support for any earlier versions of VSE/ESA will be provided by the 5.0 release of BIM-ALERT/VSE.

Enhancements to BIM-ALERT/VSE

Introduction

This section briefly lists some of the enhancements to BIM-ALERT/VSE for version 5.1.

New ALXP Menu Panels

The ALXP menu panels have changed. The Online Security Functions menu (ALXP), the Extended Security Functions menu (PF4 from ALXP), and the Resource Information menu (ARES, DRES, and URES) have been combined onto a single panel that is invoked by the ALXP transaction.

```

ALXP          BIM-ALERT/VSE Online Security Functions - 5.1C          Menu
-----
USER PROFILE FUNCTIONS          FUNCTION          RESOURCE SECURITY FUNCTIONS          FUNCTION
User Profiles..... ( _ ?AUP )    DASD Dataset..... ( _ ?DDS )
User Profile Search..... ( _ SRCH ) Tape Dataset..... ( _ ?TDS )
                                   Library..... ( _ ?LIB )
ADMINISTRATOR CONTROL FUNCTIONS SubLibrary..... ( _ ?SUB )
Convert/Assemble Rules.... ( _ CALR ) Library Member..... ( _ ?LMB )
Modify/Load Options..... ( _ SCFL ) VSAM Catalog..... ( _ ?CAT )
Display Log File..... ( _ DLOG )   DITTO Command..... ( _ ?DIT )
Display Audit Trail..... ( _ DAUD ) CA-XCOM Send..... ( _ ?XCS )
Online Rules Test..... ( _ AXPT )  CA-XCOM Receive..... ( _ ?XCR )
BIM-ALERT/CICS Menu..... ( _ SCTY ) User Defined..... ( _ ?RES )

EXTENDED SECURITY FUNCTIONS
Extended User..... ( _ ?USR )
Job Mask..... ( _ ?JOB )          FUNCTION CODES: A - Add New Rule Set
Security IDs..... ( _ ?SEC )      D - Display Rule Set
Update User Sequence..... ( _ UUSQ ) U - Update Rule Set
Update Job Mask Sequence.. ( _ UJSQ ) X - Execute Function

ALV505I Select desired function, enter code, then press <ENTER>.
    
```

The panels have been re-written in Command Level CICS Assembler language to support CICS/TS 1.1, and use extended attributes for increased usability. Please refer to the *BIM-ALERT/VSE Security Administrator's Guide* for information on how to use and navigate the new ALXP menu panels.

VSE/ESA 2.4/2.5/2.6/2.7 ESM Support

VSE/ESA 2.4/2.5/2.6/2.7 introduced changes to the VSE security environment, including the introduction of the External Security Manager (ESM). BIM-ALERT/VSE's activation routines are now invoked during the ESM initialization process (BSSINIT). Please refer to the *BIM-ALERT Installation and Operation's Guide* for additional information on how to implement BIM-ALERT/VSE in the VSE/ESA 2.4, 2.5, 2.6 or 2.7 environment.

BIM-EPIC Security Exit

BIM-ALERT/VSE now provides a security exit module for BIM-EPIC. With this new security exit in place, BIM-ALERT/VSE will authorize the file open request before any updates are made to the BIM-EPIC catalog. If a security violation is detected, the job will be cancelled, and the BIM-EPIC catalog and the disk VTOC will remain in synchronization. Please refer to the *BIM-ALERT Installation and Operation's Guide* for information on how to implement the BIM-EPIC security exit.

New Message Number Format

The format of the message numbers produced by BIM-ALERT/VSE are changing from AXnnn to **ALVnnnI**. Messages that are produced by components that are common between BIM-ALERT/VSE and BIM-ALERT/CICS will use the **ALTnnnI** format. Only the components of BIM-ALERT/VSE that were updated to support VSE/ESA 2.4, 2.5, 2.6 and 2.7, and the BIM-ALERT logger facility have been updated to use the new message format. Please refer to the *BIM-ALERT Messages Guide* for a complete list of the updated messages.

New NOSTMTS Report Writer Option

A NOSTMTS option has been added to the REPORT keyword of the BIM-ALERT Report Writer. The NOSTMTS option allows you to suppress the report generation and diagnostic messages normally created during report execution. This will allow reports to be generated for end-users without them seeing the control statements used to create the report.

Please refer to Chapter 2 in the *BIM-ALERT Auditing and Report Writing Guide* for more information on using this new report option.

BIM-ALERT/CICS

Compatibility Issues for Current Users

Introduction

This section describes changes to BIM-ALERT/CICS for version 5.1 that you should be aware of if you are currently running BIM-ALERT/CICS 5.0.

Violation Log File Changed

BIM-ALERT/CICS 5.1 no longer uses the S1SECLG file to store the sign-on/signoff and violation log records. Instead, it will use the same log files, AXPLOG1 and AXPLOG3, that are provided by BIM-ALERT/VSE. The online transaction of DVIO has been replaced by DLOG. The BIM-ALERT Report Writer will continue to report on the BIM-ALERT/CICS log file data via the ALRTVCVI report name, but there are two data fields which require special mention: RECTYPE and EVENTYPE. The data field RECTYPE previously had three possible values, but now has only two as shown below.

Old values	
C'1'	Start-up and shutdown records
C'2'	Violation records
C'3'	Sign-on and signoff records
New values	
X'58'	Access check records, including sign-on, signoff, and violation records
X'59'	Startup and shutdown records

The new data field EVENTYPE has the following values:

X'02'	Violation records
X'04'	Sign-on and signoff records

(continued) ↗

**Violation Log File
Changed
(continued)**

Thus, whereas the customer would previously use the data field RECTYPE to select records for a report, he should now use EVENTYPE. For example, to select violation records, the SELECT statement would need to be:

```
SELECT IF EVENTYPE EQ X'02'
```

Similarly, to select sign-on/signoff records, the SELECT statement would be:

```
SELECT IF EVENTYPE EQ X'04'
```

**IUI Support Under
CICS/TS 1.1**

Because of changes in the sign-on processing used by the IUI in the CICS/TS environment, the user will now see the IUI sign-on screen but will enter his ALERT user-id and password. The IUI no longer requires the client to maintain user-id and password information in the IESCNTL file. The ESM security product is now required to maintain this data. The implementation of this new process simply requires that the IEGM transaction be pointed to the ALERT program S1S615. The ALERT sign-on now occurs 'behind the scenes'. The IUI sign-on occurs via a security call to the ESM security router. There is no longer a need for an ALERT post-sign-on program. Please refer to the *BIM-ALERT Installation and Operations Guide* for more details.

Note: CICS/TS partitions which do not use the IUI can use the CESN sign-on transaction and the BIM-ALERT/CICS sign-on screen.

Enhancements to BIM-ALERT/CICS

Introduction

This section briefly lists some of the enhancements to BIM-ALERT/CICS for version 5.1.

CICS/TS 1.1 Support

BIM-ALERT/CICS 5.1 fully supports the CICS Transaction Server supplied with VSE/ESA 2.4, 2.5, 2.6 and 2.7. It efficiently processes all the RACROUTE security requests generated by CICS/TS 1.1.

Generic Terminal Support

BIM-ALERT/CICS User Profiles now support generic terminal specification. You can restrict which terminals a person can sign on based on terminal IDS if the terminal IDS all begin with the same characters (BC31, BC32, BC33, etc.) without creating terminal groups. Please refer to the *BIM-ALERT/CICS Security Administrator's Guide* for more information on using generic terminal groups on BIM-ALERT user profiles.

New Logger and Archiving Facilities

BIM-ALERT/CICS now uses the logger facilities provided by BIM-ALERT/VSE. The same log files, AXPLOG1 and AXPLOG3, will be used to store the log records from both components of BIM-ALERT. The logger facilities include the ability to create archive tapes, and to concatenate multiple logger archive files onto a single tape. Please refer to the *BIM-ALERT Installation and Operations Guide* for more information on how to implement the BIM-ALERT logger facility.

**IBM Security
Migration Aids**

Two new migration utility programs are now provided with BIM-ALERT/CICS to help in the migration from the native IBM security system provided in CICS/VSE 2.3 to BIM-ALERT/CICS.

Utility	Purpose
ALRTCRD1	Migrate transaction definitions stored in the DFHCSD file and group them in BIM-ALERT/CICS resource groups based on the security contained in the transaction definition.
ALRTCUP1	Migrate user profile definitions stored in either the DFHSNT table or IESCNTL control file, and assign BIM-ALERT/CICS resource groups (created with the ALRTCRD1 utility above) based on the security keys contained in the current profile definition.

Please refer to Chapter 4 in the *BIM-ALERT Installation and Operations Guide* for more information on using these migration aids.

**New NOSTMTS
Report Writer
Option**

A NOSTMTS option has been added to the REPORT keyword of the BIM-ALERT Report Writer. The NOSTMTS option allows you to suppress the report generation and diagnostic messages normally created during report execution. This will allow reports to be generated for end-users without them seeing the control statements used to create the report.

Please refer to Chapter 2 in the *BIM-ALERT Auditing and Report Writing Guide* for more information on using this new report option.

**APPLID Setting for
System Security
Specifications**

The System Security Specifications panels (DPOP/UPOP) now contain a field to select the CICS region APPLID. This will allow different startup options to be selected for different CICS regions that share the same S1SCTY security file.

Please refer to Chapter 8 in the *BIM-ALERT/CICS Security Administrator's Guide* for more information on using this new startup option.

BIM-ALERT Release 5.1C

Enhancements and Changes

Introduction

This section describes the enhancements and changes included in the 5.1C release of BIM-ALERT/VSE and BIM-ALERT/CICS that you should be aware of if you are currently running BIM-ALERT 5.1A or 5.1B.

VSE/ESA 2.7 Support

BIM-ALERT 5.1C has been updated to include support for the 2.7 release of VSE/ESA. The 5.1C release supports VSE/ESA 2.3 through VSE/ESA 2.7 running CICS/VSE 2.3 and CICS/TS 1.1.

Updates to DLOG Selection Panel

The Display Log File selection panel (DLOG) has been updated to include the CICS TermID field.

```
DLOG                                ** Display Log Records **                                Display

                                     Enter Selection Criteria Below

Date:          .....From.....      .....To.....
Time:          04 / 11 / 2003      04 / 11 / 2003
              00 : 00              24 : 00

SECID:         _____
UserID:        _____
System:        _____
APPL:          _____
Event:         _____
Resource:      _____
Job Name:      _____
Reason Code:   _____
CICS TermID:   _____

Violation _  Monitor _  Log Request _  Override _
```

This new selection field will allow you to view security violation log records based on the terminal ID where the violation occurred.

**Includes All
Published
Maintenance**

The BIM-ALERT 5.1C maintenance release includes all published APARs and replacement modules as of April 11, 2003. If you are currently running the 5.1A or 5.1B release of BIM-ALERT, this tape will safely bring your BIM-ALERT install library to the 5.1C service level. No migration or updates of the BIM-ALERT security files will be necessary.
