

Fujitsu Software BS2000 SECOS

Version 5.5A
June 2020

Release Notice

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1 General

This Release Notice is a summary of the major extensions, dependencies and operating information with respect to SECOS V5.5A under the BS2000 operating system.

- *1 The release level is that of June 2020.
- *1 Changes to release level April 2018 are marked with *1.

This and other current Release Notices are ship on the SoftBooks DVD and are available online at <http://manuals.ts.fujitsu.com/>.

If one or more previous versions are skipped when this product version is used, the information from the Release Notices (and README files) of the previous versions must also be noted.

The SECOS (Security Control System) software product adds user operation security functions, thus allowing secure operation.

SRPM (System Resources and Privileges Management):

- Supports enhanced identification and authentication of users
- Combines individual users into user groups with shared access rights
- Decentralizes system administration over various user IDs (distribution of privileges)

GUARDS (Generally Usable Access contRol aDministration System):

- The GUARDS subsystem enables access protection for various BS2000 objects. GUARDS provides special containers (guards) in which the desired protection mechanisms are entered.

The following object administrations support GUARDS:

- DVS: for files, storage classes
- LMS: for library elements
- HSMS: for HSMS management classes
- JVS: for job variables
- FITC: for FITC ports
- SRPM: for group assignments, terminal sets, access classes

- Guards can be back up and restored with the GUARDS-SAVE utility.

GUARDCOO (Co-owner Protection):

User-specific definition of co-owners for files, libraries and job variables through rule containers. Access to objects by TSOS can be explicitly restricted through settings in the co-owner rules and the protection attributes of the catalogue entry. The GUARDCOO subsystem implements the co-owner protection.

GUARDDEF (Default Protection):

Pubset-global and user-specific definition of the default values of protection attributes for files and job variables through rule containers. This component is implemented via the subsystem GUARDDEF.

SAT (Security Audit Trail):

- Logging security-relevant events and reporting particular situations via alarm messages on the console with the SATCP subsystem.
- Logged data is analyzed with the SATUT utility.

SSO (Single Sign On)

SECOS-KRB is the interface for handling Kerberos authentication in BS2000

1.1 Ordering

SECOS V5.5A can be order from your local distributors.

1.2 Delivery

The SECOS files are supply via SOLIS.

The following delivery components are part of the SECOS V5.5A:

- GUARDCOO 5.5A
- GURADDEF 5.5A
- GUARDS 5.5A
- GUARDS-SAVE 5.5A
- SATCP 5.5A
- SATUT 5.5A
- SECOS 5.5A
- SECOS-KRB 5.5A
- SRPMOPT 5.5A

1.2.1 GUARDCOO

The following delivery components are required regardless of the HSI:

SIPLIB.GUARDCOO.055	Library with privileged interfaces
SYSLIB.GUARDCOO.055	Macro library
SYSTEMS.GUARDCOO.055	Message file
SYSRMS.GUARDCOO.055	Loader delivery set
SYSSDF.GUARDCOO.055	System syntax
SYSSII.GUARDCOO.055	Structure information
SYSSSC.GUARDCOO.055	Subsystem declaration
SYSSSI.GUARDCOO.055	Information file

The following delivery components are only required on S-Servers:

SYSLNK.GUARDCOO.055	Dynamic load library
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The following delivery components are only required on SQ-Servers:

SKMLNK.GUARDCOO.055	Dynamic load library
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1.2.2 GUARDDEF

The following delivery components are required regardless of the HSI:

SIPLIB.GUARDDEF.055	Library with privileged interfaces
SYSLIB.GUARDDEF.055	Macro library
SYSTEMS.GUARDDEF.055	Message file
SYSRMS.GUARDDEF.055	Loader delivery set
SYSSDF.GUARDDEF.055	System syntax
SYSSII.GUARDDEF.055	Structure information
SYSSSC.GUARDDEF.055	Subsystem declaration
SYSSSI.GUARDDEF.055	Information file

The following delivery components are only required on S-Servers:

SYSLNK.GUARDDEF.055	Dynamic load library
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The following delivery components are only required on SQ-Servers:

SKMLNK.GUARDDEF.055	Dynamic load library
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1.2.3 GUARDS

The following delivery components are required regardless of the HSI:

SIPLIB.GUARDS.055	Library with privileged interfaces
SYSLIB.GUARDS.055	Macro library
SYMES.GUARDS.055	Message file
YSRMS.GUARDS.055	Loader delivery set
SYSSDF.GUARDS.055	System syntax
SYSSII.GUARDS.055	Structure information
SYSSSC.GUARDS.055	Subsystem declaration
SYSSSI.GUARDS.055	Information file

The following delivery components are only required on S-Servers:

SYSLNK.GUARDS.055	Dynamic load library
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The following delivery components are only required on SQ-Servers:

SKMLNK.GUARDS.055	Dynamic load library
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1.2.4 GUARDS-SAVE

The following delivery components are required regardless of the HSI:

SYSLNK.GUARDS-SAVE.055	Dynamic load library
SYSPRG.GUARDS-SAVE.055	Program GUARDS-SAVE
YSRMS.GUARDS-SAVE.055	Loader delivery set
SYSSDF.GUARDS-SAVE.055	System syntax
SYSSII.GUARDS-SAVE.055	Structure information

1.2.5 SATCP

The following delivery components are required regardless of the HSI:

SIPLIB.SATCP.055	Library with privileged interfaces
SYSENT.SATCP.055	Saving of audit attributes
SYMES.SATCP.055	Message file
YSRMS.SATCP.055	Loader delivery set
SYSSDF.SATCP.055	System syntax
SYSSII.SATCP.055	Structure information
SYSSSC.SATCP.055	Subsystem declaration

The following delivery components are only required on S-Servers:

SYSLNK.SATCP.055	Dynamic load library
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The following delivery components are only required on SQ-Servers:

SKMLNK.SATCP.055	Dynamic load library
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1.2.6 SATUT

The following delivery components are required regardless of the HSI:

SYSLNK.SATUT.055	Dynamic load library
SYMES.SATUT.055	Message file
YSRMS.SATUT.055	Loader delivery set
SYSSDF.SATUT.055	System syntax
SYSSII.SATUT.055	Structure information

1.2.7 SECOS

The following delivery components are required regardless of the HSI:

SYSFGM.SECOS.055.D	Release Notice German
SYSFGM.SECOS.055.E	Release Notice English
SYSPRC.SECOS.055	Library with sample procedures
SYSSII.SECOS.055	Structure information

1.2.8 SECOS-KRB

The following delivery components are required regardless of the HSI:

SIPLIB.SECOS-KRB.055	Library with privileged interfaces
SYSDOC.SECOS-KRB.055.OSS	License -text of SECOS
SYSLNK.SECOS-KRB.055.CONVKTAB	Module to convert Keytab files
SYMES.SECOS-KRB.055	Message file
SYSRMS.SECOS-KRB.055	Loader delivery set
SYSPRC.SECOS-KRB.055.CONVKTAB	Procedure CONVKTAB
SYSSDF.SECOS-KRB.055	System syntax
SYSSII.SECOS-KRB.055	Structure information
SYSSSC.SECOS-KRB.055	Subsystem declaration

The following delivery components are only required on S-Servers:

SYSLNK.SECOS-KRB.055	Dynamic load library
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The following delivery components are only required on SQ-Servers:

SKMLNK.SECOS-KRB.055	Dynamic load library
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1.2.9 SRPMOPT

The following delivery components are required regardless of the HSI:

SIPLIB.SRPMOPT.055	Library with privileged interfaces
SYSLIB.SRPMOPT.055	Macro library
SYMES.SRPMOPT.055	Message file
SYSRMS.SRPMOPT.055	Loader delivery set
SYSSDF.SRPMOPT.055	System syntax
SYSSII.SRPMOPT.055	Structure information
SYSSSC.SRPMOPT.055	Subsystem declaration
SYSSSI.SRPMOPT.055	Information file

The following delivery components are only required on S-Servers:

SYSLNK.SRPMOPT.055	Dynamic load library
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The following delivery components are only required on SQ-Servers:

SKMLNK.SRPMOPT.055	Dynamic load library
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The current file and volume characteristics are list in the SOLIS2 delivery cover letter.

1.3 Documentation

The BS2000 documentation is available in German and English on DVD with the title BS2000 SoftBooks.

The documentation is also available in the form of online manuals at

<http://manuals.ts.fujitsu.com>

2 Software extensions

2.1 Extensions of SECOS V5.5A

The extensions and improvements over the previous version SECOS V5.4 are described in the following section.

SECOS V5.5 is supported in systems with BS2000 OSD / BC V10.0 or higher. However, certain functions are only available for systems with BS2000 OSD / BC > V11.0A. Such dependencies are explicitly indicate at the appropriate places in the manual.

2.1.1 Extensions of SATUT V5.5A

POSIX-FILE -and-Directory supports 8 new events:

- Create directory via descriptor (mkdirat)
- Create a link to a file via descriptor (linkat)
- Change file access rights via descriptor (fchmodat)
- Open file via descriptor (openat)
- Rename file via descriptor (renameat)
- Create symbolic link to a file via descriptor (symlinkat)
- Delete file or directory via descriptor (unlinkat)
- Change file group or owner via descriptor (fchownat)

For the new events, SAT information can additionally occur in the fields `atflag`, `dirdes1` and `dirdes2`. The field `accmode` additionally supports SEARCH as access mode.

2.1.2 Extensions of SECOS-KRB V5.5A

SECOS supports connections with the following encryption types:

- DES-CBC-CRC
- DES-CBC-MD5
- ARCFOUR-HMAC
- AES128-CTS-HMAC-SHA1-96
- AES256-CTS-HMAC-SHA1-96

2.1.3 Extensions of SRMOPT V5.5A

With these changes, it should be noted that changes only apply in systems with BS2000 > V11.0.

In the SHOW-LOGON-PROTECTION command, the output with SCOPE = *ALL displays not only the explicitly defined attributes but also the current standard attributes for access control.

New S variables (e.g., `var (* LIST) .DIALOG.ACCESS-DEF`) indicate for each attribute if the setting matches the default attribute.

3 Technical information

3.1 Resource requirements

The following system memory is required for running SECOS V5.5A:

Virtual address space:

- approx. 1 MB static
- less than 1 MB dynamic

The virtual address space is depending on the number of users and groups, the defined alarm and filter conditions and the selected buffer size.

Static disk storage space:

- less than 10 MB

Dynamic disk storage space:

- variable

The dynamic disk storage is depending on the number and length of guards, number of users and groups, number of pubsets and from the events and user IDs selected for logging.

3.2 Software configuration

You must note the following when using SECOS V5.5A:

- SECOS V5.5A will run on BS2000 as of V10
- The computers in a network must have matching environments. This means particularly that the same version of SECOS must be running on all computers. If this is not the case, this can result in differing behaviour for the objects of a shared pubset in terms of standard protection, co-ownership protection and TSOS restriction, and possibly access problems on guards (STDAC), depending on the SECOS version on the master computer.
- Some SATUT functions require the functionality of SORT. The product SORT is not supply with the SAT analysis program, but must be available to be able to execute such SATUT functions.

- *1 - Single Sign On with Kerberos is verify with current versions of Windows servers.

To use the following functions of SECOS, there are specific version dependencies with the listed products:

- Using the co-ownership protection, default protection and TSOS restriction for the job variable object:
JV V14.0
- Converts the Keytab output file of ktpass command:
SDF-P

3.3 Product installation

The installation of the product SECOS with the installation monitor IMON is mandatory.

- *1 **However, SECOS must not be activate with IMON during running operation.**

You must follow the information concerning installation in the delivery cover letter and in the product documentation.

The necessary inputs and the sequence of the installation are describe in the IMON documentation.

You will find further information on installation in the manuals System installation and Introduction to system support of BS2000.

3.4 Product use

Before the first use of SECOS V5.5A, the subsystem information files (SYSSSI.SRPMOPT.055 and SYSSSI.GUARDS.055) should be adapted if custom settings of the options have been made in a previous version.

Fujitsu Technology Solutions offer training courses for SECOS.

3.5 Discontinued functions (and those to be discontinued)

The access classes POSIX-SERVER-ACCESS and RBATCH-ACCESS are discontinued with this version.

3.6 Incompatibilities

SECOS V5.5A is fully compatible with SECOS V5.4.

3.7 Restrictions

No restrictions.

3.8 Procedure in the event of errors

If an error occurs, the following error documentation will be required for diagnostic purposes:

- A detailed description of the error condition, indicating whether and how the error can be reproduce.
- The error must be report to the appropriate service provider.
- SYSLST of the session
- Conslog file
- SYSREP.BS2.xxx
- SYSREP.SRPMNUC.xxx
- SYSREP.<Secos delivery component>.055
- SYSSSI.SRPMOPT.055
- SYS.SATLOG.datum.sessionnr. file
- SYS.SERSLOG.datum.sessionnr. file
- SYSPAR.SAT file, if problems occurred with the SAT parameter file
- SAT logging settings
- Dump, if it occurred
- backup of the Guards catalogue
- backup of the user catalogue

4 Hardware requirements

SECOS V5.5A runs on all BS2000 as of V10.0A business server which fulfilling the software requirements.