

## Technical Document

**Document No:** 10-01004  
**Document Title:** Configure System Security (CFGSYSSEC) Command  
**Category:** Hints, Tips & FAQ  
**Functional Area:** Security  
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### Document Description:

The Configure System Security (**CFGSYSSEC**) command is used to set security-relevant system values to the IBM recommended settings. The command also sets up security auditing on your system.

The following table lists the system values that are set when the **CFGSYSSEC** command is run. The **CFGSYSSEC** command runs a program called QSECCFGS in library QSYS.

### Values Set by the CFGSYSSEC Command

System Value Name	Setting	System Value Description
QAUTOCFG	0 (No)	Automatic configuration of new device
QAUTOVRT	0	The number of virtual device descriptions that the system will automatically create if no device is available for use.
QALWOBJRST	*NONE	Whether system state programs and programs that adopt authority can be restored.
QDEVRCYACN	*DSCMSG (Disconnect with message)	System action when communications is re-established.
QDSCJOBTV	120	Time period before the system takes action on a disconnected job.
QDSPSGNINF	1 (Yes)	Whether users see the sign-on information display
QINACTITV	60	Time period before the system takes action on an inactive interactive job.
QINACTMSGQ	*ENDJOB	Action that the system takes for an inactive job.

QLMTDEVSSN	1 (Yes)	Whether users are limited to signing on at one device at a time
QLMTSECOFR	1 (Yes)	Whether *ALLOBJ and *SERVICE users are limited to specific devices
QMAXSIGN	3	How many consecutive, unsuccessful sign-on attempts are allowed
QMAXSGNACN	3 (Both)	Whether the system disables the workstation or the user profile when the QMAXSIGN limit is reached
QRMTSIGN	*FRCSIGNON	How the system handles a remote (pass-through or Telnet) sign-on attempt
QRMTSVRATR	0 (Off)	Allows the system to be analyzed remotely
QSECURITY(1)	50	The level of <a href="#">security</a> that is enforced
QPWDEXPITV	60	How often users must change their passwords
QPWDMINLEN	6	Minimum length for passwords
QPWDMAXLEN	8	Maximum length for passwords
QPWDPOSDIF	1 (Yes)	Whether every position in a new password must differ from the same position in the last password
QPWDLMTCHR	See note 2	Characters not allowed in passwords
QPWDLMTAJC	1 (Yes)	Whether adjacent numbers are prohibited in passwords
QPWDLMTREP	2 (Cannot be repeated consecutively)	Whether repeating characters are prohibited in passwords
QPWDRQDDGT	1 (Yes)	Whether passwords must have at least one number
QPWDRQDDIF	1 (32 unique passwords)	How many unique passwords are required before a password can be repeated
QPWDVLDPGM	*NONE	The user exit program that the system calls to validate passwords

#### Notes:

1. If you are currently running with a QSECURITY value of 30 or lower, review the information in Chapter 2 of the [Security - Reference](#) manual before changing to a higher security level.
2. The restricted characters are stored in message ID CPXB302 in the message file QSYS/QCPFMSG. They are shipped as AEIOU@\$. Use the Change Message Description (**CHGMSGD**) command to change the restricted characters.

3. The **CFGSYSSEC** command also sets the password to \*NONE for the following IBM-supplied user profiles:  
QSYSOPR  
QPGMR  
QUSER  
QSRV  
QSRVBAS

Finally, the **CFGSYSSEC** command sets up security auditing according to the values specified by the Change Security Auditing (**CHGSECAUD**) command.

## Changing the Program

If some of these settings are not appropriate for your installation, create your own version of the program that processes the command. To do this, perform the following steps:

1. Use the Retrieve CL Source (**RTVCLSRC**) command to copy the source for the program that runs when you use the **CFGSYSSEC** command. The program to retrieve is QSYS/QSECCFGS. When you retrieve it, give it a different name.
2. Edit the program to make your changes. Then compile it. When you compile it, make sure that you do not replace the IBM-supplied QSYS/QSECCFGS program. Your program should have a different name.
3. Use the Change Command (**CHGCMD**) command to change the program to process command (PGM) parameter for the **CFGSYSSEC** command. Set the PGM value to the name of your program. For example, if a program is created in the QGPL library called MYSECCFG, on the OS/400 command line type the following:

**Caution:** If the QSYS/QSECCFGS program is changed, IBM cannot guarantee nor imply reliability, serviceability, performance, or function of the program. The implied warranties of merchantability and fitness for a particular purpose are expressly disclaimed.

```
CHGCMD CMD(QSYS/CFGSYSSEC) PGM(QGPL/MYSECCFG)
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