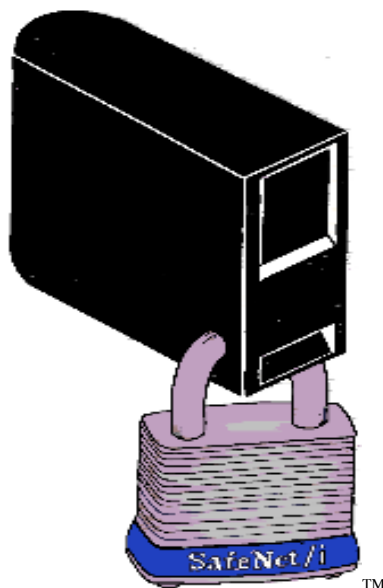


SafeNet/i

FOR IBM i

**INSTALLATION AND UPGRADE
GUIDE**

Version 12



How to contact us

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Kisco Website: <https://www.kisco.com/>

TABLE OF CONTENTS

<i>Chapter 1 - INSTALLING SAFENET/i – NEW INSTALLATION ONLY.....</i>	<i>1.1</i>
<i>Chapter 2 - UPGRADING TO A NEW RELEASE OF SAFENET/i.....</i>	<i>2.1</i>
<i>Chapter 3 - INSTALLING PTFs.....</i>	<i>3.1</i>

SafeNet/i Installation and Upgrade Guide

Chapter 1 - INSTALLING SAFENET/i – NEW INSTALLATION ONLY

What SafeNet/i will change on your system

The following will occur automatically during the **SafeNet/i** installation process when using the LODRUN command. No verification or pre-processing screens are displayed during the installation.

1. Library PCSECLIB, which contains the **SafeNet/i** licensed programs, and library PCSECDTA, which contains data, are created.
2. The network attribute DDMACC is changed from *OBJAUT to SAFENET/PCSECLIB. This controls the *DDM Server* function exit point.
3. The network attribute PCSACC is changed from *OBJAUT to *REGFAC. This controls the *Original PC Support* client transfer requests.
4. Exit point program SAFENETxx in PCSECLIB is registered to all supported i OS servers. Use the IBM i WRKREGINF command if you require further information.
5. Two user profiles are assigned super-administrator rights to **SafeNet/i** by default: profiles SAFENET and QSECOFR.

You may choose to remove SAFENET as a Super Admin, but you cannot remove QSECOFR as a Super Admin.

See ‘SafeNet Administrator’ in Chapter 1 of the [SafeNet/i Reference Guide](#) for more information.

All **SafeNet/i** manuals are available here:

<https://www.kisco.com/safenet/sndload.html>

Help

All screens, menus and commands within **SafeNet/i** provide extensive **HELP** panels. This **HELP** is available by using the **F1** key or **HELP** key, whichever is applicable to your keyboard.

SafeNet/i Commands

To use **SafeNet/i** commands instead of the menu structure, make sure you add PCSECLIB to your library list. Use the command:

ADDLIB PCSECLIB

You will find a complete list of all the **SafeNet/i** commands in Chapter 10, 'Special SafeNet/i Considerations' in the SafeNet/i Reference Guide.

First Time Installation

Follow these steps to install **SafeNet/i** on your system for the very FIRST TIME.

Important: If you are upgrading to Version 12 from a previous version of SafeNet/i, see the Version 12 Upgrade Process in Chapter 2 of this guide.

SafeNet/i Installation – first time install

READ THIS BEFORE YOU PERFORM ANY INSTALLATION STEPS

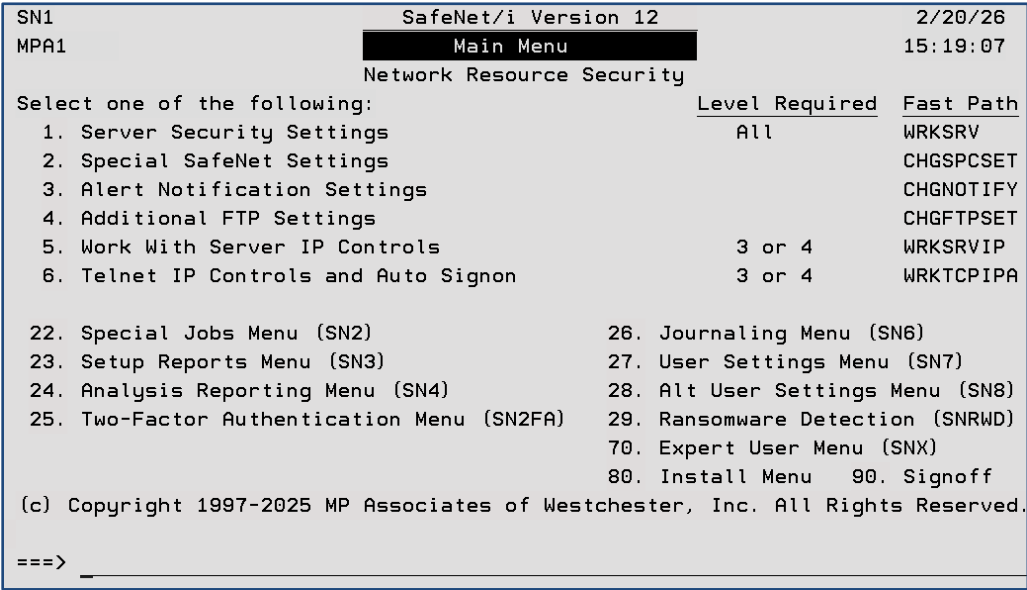
If the length of time since you did an IPL on your IBM i is over 30 days, we strongly recommend you schedule an IPL **BEFORE** you begin the SafeNet/i installation.

This will ensure that your IPL procedure is current and all system processes restart correctly after the IPL.

SafeNet install and initial setup

- 1. After you receive the link to download the SafeNet/i CD image file from Kisco Support, follow the ‘Instructions for a New Installation where SafeNet/i has never been installed’.

When the installation is complete, the main SafeNet/i menu will be displayed



2. Make sure you modify your system startup program

Modify your system startup program to add STRTRP at the beginning of the program before other subsystems are started.

Add these commands to your system startup program:

PCSECLIB/STRTRP
MONMSG CPF0000

3. Register SafeNet/i Administrators

Before you IPL your system, you should register your SafeNet/i Administrators in the software.

Use command **PCSECLIB/WRKSNADM**

Or use the SafeNet/i menus

Navigate to the SafeNet/i Main Menu by typing on the command line:

GO PCSECLIB/SN1

Select **Option 27 – User Settings Menu**

Select **Option 9 – SafeNet/i Administrators**

SN7	SafeNet/i Version 12	2/20/26
MPR1	User Settings Menu	15:21:49
Select one of the following:		
	Level Required	Fast Path
1. Work with User to Server Security	3 or 4	WRKUSRSRV
2. Work with User to Object Level Security	4	WRKUSROBJ
3. Work with User to SQL Statement Security	4	WRKUSRSQL
4. Work with User to FTP Statement Security	4	WRKUSRFTP
5. Work with User to CL Command Security	4	WRKUSRCMD
6. Work with User to Long Path Names	4	WRKUSRPTH
7. Work with User to IP Addresses		WRKUSRIP
8. Work with Swap Profiles		WRKSWPPR
9. SafeNet Administrators	10. SafeNet Super-Users	WRKSNADM, WRKSNSUSR
11. Copy A User Setup	12. Remove a User Setup	CPYSNUSR, RMVSNUSR
13. Remove Unknown Users from SafeNet		RMVSNUSR1
21. Main Menu (SN1)	23. Setup Reports Menu (SN3)	
22. Special Jobs Menu (SN2)	24. Analysis Reports Menu (SN4)	
	28. Alt View User Menu (SN8)	
Selection or command (c) Copyright 1997-2025 MP Assoc., Inc.		

Add any new Administrators as needed

4. Perform an IPL

Post-IPL

- To confirm that your system startup program has been modified properly, check to ensure that the *SAFELOGING* subsystem and *SAFELOGING* job are running after the IPL.

Use command **WRKACTJOB SBS(SAFELOGING)** to verify

Type options, press Enter.						
2=Change 3=Hold 4=End 5=Work with 6=Release 7=Display message						
8=Work with spooled files 13=Disconnect ...						
Current						
Opt	Subsystem/Job	User	Type	CPU %	Function	Status
—	SAFELOGING	QSYS	SBS	.0		DEQW
—	SAFELOGING	SAFENET	BCH	.0	PGM-WRITETCL	DEQW

- Verify all the SafeNet/i server functions are set to Logging Level = None

Sign on as SAFENET or QSECOFR, or another SafeNet/i Super Admin profile

Navigate to the SafeNet/i Main Menu (**GO PCSECLIB/SN1**)

SN1	SafeNet/i Version 12	2/20/26
MPA1	Main Menu	14:45:48
Network Resource Security		
Select one of the following:		
	Level Required	Fast Path
1. Server Security Settings	All	WRKSRV
2. Special SafeNet Settings		CHGSPCSET
3. Alert Notification Settings		CHGNOTIFY
4. Additional FTP Settings		CHGFTPSET
5. Work With Server IP Controls	3 or 4	WRKSRVIP
6. Telnet IP Controls and Auto Signon	3 or 4	WRKTCIPA
22. Special Jobs Menu (SN2)	26. Journaling Menu (SN6)	
23. Setup Reports Menu (SN3)	27. User Settings Menu (SN7)	
24. Analysis Reporting Menu (SN4)	28. Alt User Settings Menu (SN8)	
25. Two-Factor Authentication Menu (SN2FA)	29. Ransomware Detection (SNRWD)	
	70. Expert User Menu (SNX)	
	80. Install Menu 90. Signoff	
(c) Copyright 1997-2025 MP Associates of Westchester, Inc. All Rights Reserved.		

Select **Option 1 - Server Security Settings** to view the servers

Or use command **PCSECLIB/WRKSRV**

Make sure the *Log* column for all the server functions is set to **N**

WRKRE22R

SafeNet/i V12

2/20/26

MPA1

Maintain Server Security

15:01:05

Security Levels:

1=Unlimited Access 2=No Access 3=Limited by User 4=Limited by User & Object

Logging Levels:

A=All N=None R=Rejects Only

TOD=Time of Day Controls

IPA=IP Address Controls

Y=Yes N=No

|----Current---| Future Max

Sec. Log TOD IPA Lvl Lvl Description

1 N N N 4 4 Distributed Data Management *DDM

1 N N N 3 3 DRDA DB2 Database Access Rqst *DRDA

1 N N N 1 4 Original Data Queue Server *DQSRV

1 N N N 1 3 Original License Mgmt Server *LMSRV

1 N N N 1 3 Original Message Server *MSGFCL

1 N N N 1 3 Network Print Server - entry QNPSEVR

1 N N N 1 4 Network Print Server - spool file QNPSEVR

1 N N N 4 4 File Server *FILESRV

1 N N N 4 4 Original Remote SQL Server *RQSRV

1 N N N 1 4 Spooled file security exit point *SPLAUT

More...

Page down to inspect all the servers.

Congratulations! You are now ready to activate transaction logging in SafeNet/i.

Follow the instructions in the next section to activate transaction logging.

When you are ready to begin logging transactions

1. Change the *SafeNet Master Logging Level Switch*

Use **Option 2 - Special SafeNet Settings** from the [SafeNet Main Menu](#)

Change the first parameter *Record All Transactions* to **FILE*

Or

Use command **PCSECLIB/CHGSPCSET LOGALL(*FILE)**

```
Change SafeNet Special Setting (CHGSPCSET)

Type choices, press Enter.

Record All Transactions to . . . *FILE      *FILE, *JOURNAL, *BOTH, *NONE
Journal SafeNet Sec Changes? .  *NO       *YES, *NO
Reg-Admin changes Q Profiles? . *YES     *NO, *YES
Restrict Reg-Admin WRKUSRxxx? . *NO      *YES, *NO
Swap User Profiles . . . . . *NO       *NO, *OPT, *RQD
Use TCP/IP Address Controls? .  *YES     *NO, *YES
Log Super User Transactions? .  *YES     *NO, *YES
Retrieve SuperUser Every Time? *YES     *DO NOT CHANGE*
Allow Incoming DDM Commands? .  *YES     *YES, *NO
Ctl DDM access by System Name? *NO      *NO, *YES
Perform Generic Object Search? *YES     *YES, *NO
Object Search Sequence . . . . *STD     *STD, *ALT1, *ALT2, *ALT3
Object Search Stop Point. . .  *ONMATCH *ONMATCH, *ONACCEPT...
Specific USRLIBL Entry Needed? *YES     *NO, *YES
Allow READ of IBM Folders? . .  *YES     *YES, *NO
Allow UPDATE of IBM Folders? .  *YES     *YES, *NO

More...
```

2. Enable the logging level at each server in SafeNet/i

We recommend that you activate logging on each server individually to see what impact logging for each specific point might have on your system.

From the [SafeNet Main Menu](#) use **Option 1 - Server Security Settings** to work with the servers

Or use command **PCSECLIB/WRKSRV**

Activate logging for each individual server

Change the **N** under the "Log" column to **A**

Logging will be activated immediately for the server function selected

WRKRE22R

SafeNet/i V12

2/20/26

MPA1

Maintain Server Security

15:01:05

Security Levels:

1=Unlimited Access 2=No Access 3=Limited by User 4=Limited by User & Object

Logging Levels:

A=All N=None R=Rejects Only

TOD=Time of Day Controls

IPA=IP Address Controls

Y=Yes N=No

|----Current---| Future Max

Sec. Log TOD IPA Lvl Lvl

Server

Description

1 N N N 4 4 Distributed Data Management *DDM

1 A N N 3 3 DRDA DB2 Database Access Rqst *DRDA

1 N N N 1 4 Original Data Queue Server *DQSRV

1 N N 1 3 Original License Mgmt Server *LMSRV

1 N N 1 3 Original Message Server *MSGFCL

1 N N N 1 3 Network Print Server - entry QNPSEVR

1 N N 1 4 Network Print Server - spool file QNPSEVR

1 N N N 4 4 File Server *FILESRV

1 N N N 4 4 Original Remote SQL Server *RQSRV

1 N N 1 4 Spooled file security exit point *SPLAUT

More...

Continue setting the logging to 'A' (ALL) one server function at a time.

As you do each server, you can check the record count and data in file TRAPOD.

You can also watch the performance of the SAFELOGING job if needed.

Once you set each server to logging, you can filter transaction logging as needed to reduce or omit certain transactions from the log file

See detailed instructions on configuring SafeNet/i for your environment in the [SafeNet/i Implementation Guide](#) and [SafeNet/i Reference Guide](#).

Reducing IPLs needed at install time

The **SafeNet/i** user guide recommends an IPL prior to activating the product. There is also an IPL that will be required when PTFs are applied from IBM. Since some installations run on a 24-hour basis, adding two IPLs can be a problem. To help, you can use the following procedure to combine these two IPLs into a single IPL.

- Load **SafeNet/i**, but do not change any initial settings.
- Load your IBM PTFs if necessary
- Do the single IPL

Chapter 2 - UPGRADING TO A NEW RELEASE OF SAFENET/i

Important: If you are planning to upgrade to **SafeNet/i** Version 12, and you currently have Version 10 or below installed – **STOP HERE**. A direct upgrade is **NOT** supported.

Please contact Kisco Information Systems at Support@Kisco.com for specific instructions and assistance.

There are two methods available to upgrade **SafeNet/i**:

Method A – Traditional Direct Installation

Method B – Automatic Unattended Upgrade Installation

Either method will result in a successful upgrade installation.

Method A is used for those situations where you can easily schedule some downtime for your system and you prefer to do a direct installation with operator supervision during the entire process.

Method B can be used as an alternate when scheduling downtime is a problem. Method B is a two-step process where the actual installation is done during an IPL of your system.

Important Note: You cannot use *Method B* when upgrading more than one release level.

You will find the most current upgrade instructions here:

<http://www.kisco.com/safenet/sndloadv12u.htm>

Chapter 3 - INSTALLING PTFs

Remote PTF Update Service

SafeNet/i supports distribution of program updates remotely via the Internet. When programs in **SafeNet/i** are updated or program fixes are required, Kisco Information Systems can send the updates directly to you as an e-mail with an attached file. This file, when loaded into a folder on your system, can be used to post program updates and changes to your copy of **SafeNet/i**.

Some PTFs come with additional instructions included in the email. Special instructions might include things like timing for the PTF installation, shutting down specific servers while the PTF install is running, along with other items to be aware of during the PTF process. Please make sure you review these additional instructions before you begin.

You will find the most current PTF installation instructions here:

<https://www.kisco.com/safenet/support/snptfpst.html>