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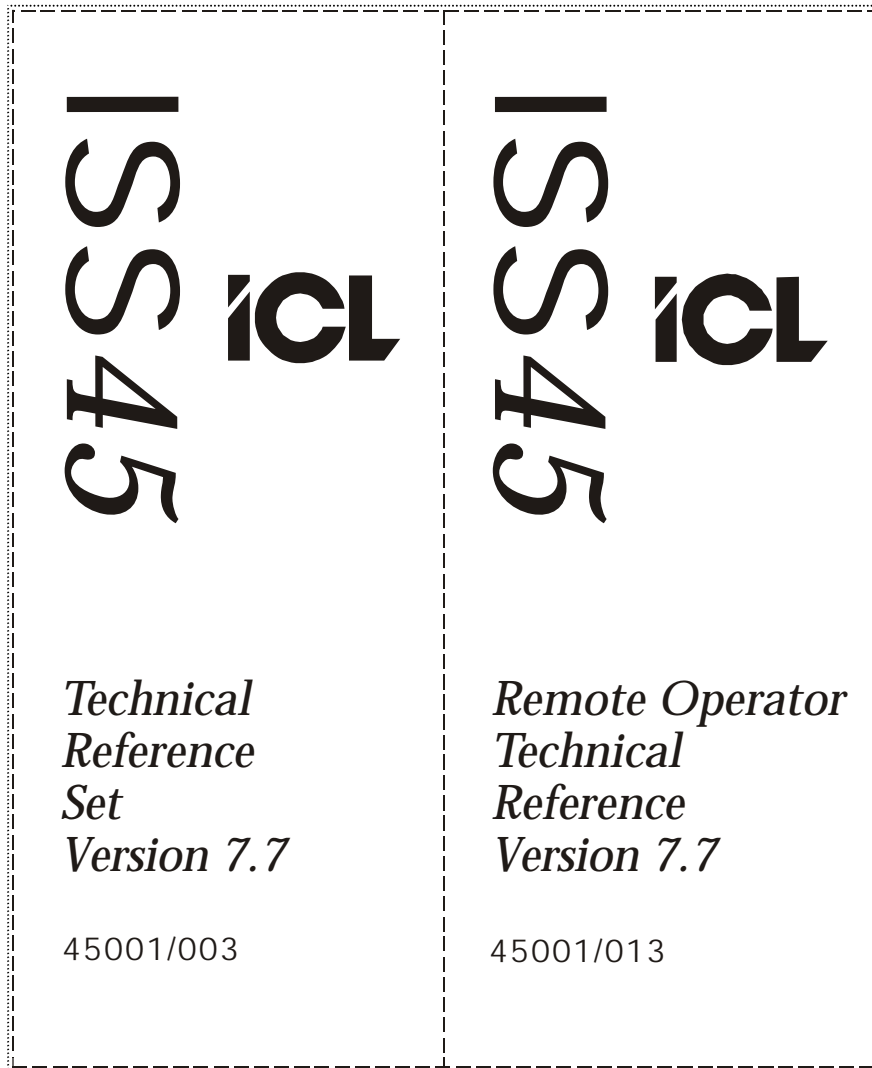


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Introduction

The Remote Operator package enables a remote client (Head office) PC to control the keyboard and monitor the screen of the server (Store) computer, via modems or a null-modem cable. Remote Operator supports dialing from either the client or the server, file transfer between the client and the server, and control of other PC's in an ISS45 store. Only DOS text mode programs are supported.

Remote Operator server

The Remote Operator server PC must run the PCR-S.EXE program. This loads a TSR (less than 15KB), on the server that monitors the screen, keyboard and the communication channels. Once loaded, PCR-S remains in idle mode until a modem connection is made. If configured to call mode, this PC can initiate a modem connection via the MINTF utility. The server can be suspended, to enable the sever PC to use the modem to communicate with other computers with the MINTF utility.

Remote Operator client

On the client PC, the user must run the PCR-C.EXE program. The program waits for modem connection (if in answer mode), or asks the user for the number to dial if in call mode. After the modem connection is established, the user gets the message:

```
trying to sync with remote PC....
```

Once the connection is established, this prompt appears:

```
Enter Password:
```

The user enters the password, and after verification of the password by the server, the user is in Remote Operator mode. He now has control over the server PC. All keyboard strokes are transferred to the server's keyboard buffer, and the server's screen is sent to the client screen.

Special Remote Operator client keys

ALT-CTRL-X	Disconnect modems, exit to DOS.
ALT-CTRL-S	Local DOS shell on client. The user's keystrokes and screen are those of the local PC. The user must type EXIT and press ENTER to return to Remote Operator mode.
ALT-CTRL-C	Refresh screen.

File transfer

Remote Operator supports file transfer between Remote Operator Client and Remote Operator Server. On the Remote Operator mode, the user must run PCR-XFR from the C:\PCR directory. This loads the file transfer server application on the Remote Operator server, and automatically sets the Remote Operator client in a special DOS Shell mode. The user's keystrokes now control the local PC.

To copy files TO the server, type:

```
Mcopy [source-fname] 0#[target-fname]
```

To copy files FROM the server, type:

```
Mcopy 0#[source-fname] [target-fname]
```

To list the server directory, type:

```
Mdir 0#*.*
```

Mcopy is a program similar to Rcopy, that works over modem connections. Mcopy supports automatic compression/decompression of files by using PKZIP/PKUNZIP utilities.

The 0# PC number or 255# stands for Remote Operator RS232 SERVER PC. The user can also use specific numbers, 1 or 2 etc., for file transfer to MFS1 / MFS2 / Workstation.

To return to Remote Operator mode, type EXIT and press ENTER.

Note

DRVFILE must be loaded in the server. For file transfer while the ISS45 system is down, you can load GPFILE from the PCR directory on the server PC. GPFILE is a minimum DRVFILE substitute.

Communication parameters

Communication and modem parameters are maintained by the PCRPRM.EXE program. This is a PPM based program that handles the following parameters:

Communication port: COM1, COM2, COM3, COM4. INT14 is supported for a Remote Operator client with standard LAN modem hub.

Communication IRQ: IRQ3 for COM2-4, IRQ4 for COM1-3

Baud rate: 1200, 2400, 4800, 9600 BAUD for modem connections.
19200 and 38400 BAUD supported only for null-modem link.

Password: The passwords must be the same in the client and the server for file transfer. (The client enters a password manually for Remote Operator control mode.)

Modem setup string

for answer mode: The setup string varies slightly between the modems. On a Hayes compatible modem it should look like this:

```
AT&F&D2&C1E0V1S0=2
```

This string causes the modem to auto answer after 2 rings.

Note

Remote Operator works best without modem error correction and handshaking. These are done by the Remote Operator application.

Setup modem string for call mode: The setup string varies slightly between the modems. On a Hayes compatible modem it should look like this:

```
AT&F&D2&C1E0V0S0=0
```

This string disables modem auto answer.

Remote Operator works best without modem error correction and handshaking. These are done by the Remote Operator application.

Modem escape sequence: Usually +++

Modem dial string: Usually ATDT for tone dial, ATDP for Pulse dial.

Modem hang-up string: Usually ATH0

Station name: This Field identifies every station.

The store should now be in answer mode.

The Center office should now be in call mode.

File transfer in batch mode

PCR-XFR can function as a server for batch file modem transfer. This configuration is good for store to Center office communications. The Center office loads PCR-XFR in center mode. The stores dial in to the Center and perform file transfers with the MCOPY program. PCR-XFR produces a log of all dial-ins and file transfers performed.

Utilities

MINTF.EXE

A program that interfaces Remote Operator

Usage:

At the DOS prompt, type: MINTF [**switches**]

<ENTER>

Switches:

/QUIET	Do not display any messages (for batches)
/CONNECTnnnn	Dial number nnnn
/ANSWER	Set Modem in Answer mode
/DISCONNECT	Disconnect modem
/PCRSRVMV	Remove PCR-S server from memory (succeeds only if PCR-S is the last TSR program loaded).

	/REMOTEQUIT	Force remote PC to quit PCR-XFR file transfer
	/PCRSRVSLEEP	Suspend PCR-Server program
	/PCRSRVWAKEUP	Wake up PCR-Server program
MSEND.EXE		A program for low level communication to the modem, usually used for sending control strings to the modem
MCOPY.EXE		File transfer program
MDIR.EXE		Remote directory list program
MDEL.EXE		Remote File delete program
GPFILE.EXE		Minimum DRVFILE substitution for file transfer (used only if DRVFILE is not loaded at the server running PCR- XFR)
PCRPRM.EXE		Maintain communication parameters

Store installation

- Make a directory called PCR and then change to it.

```
MD C:\PCR
```

```
CD C:\PCR
```

- Copy the Remote Operator package to C:\PCR
- Run PCRPRM and update the parameters for modem, and answer mode, according to the modem used.
- Add C:\PCR to the system PATH in SCKINIT.BAT.
- In LOADDRV.BAT add the line PCR-S to load the Remote Operator-Server. (This line *must* be before IOSNOS).
- Boot the PC.

Once the system is loaded, the store is ready to answer Remote Operator calls.

Center/Office installation

- Make a directory called PCR and then change to it.

```
MD C:\PCR
```

```
CD C:\PCR
```

- Copy the Remote Operator package to C:\PCR.
- Run PCRPRM and update the parameters for modem, and call mode, according to the modem used.

- Run PCR-C to connect to the store. See details in the paragraphs 'Remote Operator Client', 'Special Remote operator Client keys' and 'File transfer'.

Install

Make the directory C:\PCR and copy the Remote Operator software into this directory.

Remote Operator - RS232 modem setup

- On both PCs of Remote Operator modem (remote PC and MFS1, MFS2 or workstation) set parameters for: comm port, irq, baud rate, etc., by running PCRPRM from the C:\PCR directory.
- On the MFS1/MFS2 or workstation, run PCR-S from the C:\PCR directory.

Remote Operator - LAN

- On the client PC, exit to DOS.
- Change the directory to C:\PCR.
- Run PCR-CL.
- Enter the server PC number (if the PC server), or enter the POS number /POSnn.
- You are now in Remote Operator mode and your keyboard controls the PC/POS server.

Remote Operator RS232 modem

Configuration A:

Store in answer mode - remote station in call mode:

- Set answer and call modes by running PCRPRM.
- On the store PC, run PCR-S.
- On the remote client, change directory to C:\PCR.
- Run PCR-C, which will prompt for the store number to dial.

Configuration B:**Store in call mode** - remote station in answer mode:

- Set answer and call modes by running PCRPRM.
- On the store PC, run PCR-S.
- On the remote client, change directory to C:\PCR.
- Run PCR-C, which waits for a call from the store.
- On the store PC, run MINTF /CONNECTnnn, or MSEND programs to dial and connect.
- To disconnect, run MINTF /DISCONNECT.
- Remove the PCR-S TSR from memory by running MINTF /PCRSRVMV.
- After connection is established, You get the message:
trying to sync with remote PC...
- Enter the password at the prompt.
- Type pcremote and press ENTER.

You are now in Remote Operator mode.

Note

If the cable/port number configuration is wrong, you get the message:
No carrier. Exit to DOS

You can now switch to another PC in the store by pressing ALT-CTRL-L

Special keys

ALT-CTRL-X	Exit to DOS
ALT-CTRL-S	Local DOS shell on client, type EXIT to return to Remote Operator mode
ALT-CTRL-C	Refresh screen
ALT-CTRL-L	Take control over another PC on the store LAN
ALT-CTRL-T	Forced entry to local file transfer-mode. Type EXIT to return to Remote Operator mode.

Note

This key is usually not used because of automatic activation of PCR-XFR.

Remote Operator RS232 file transfer - interactive mode

Perform all operations on the client remote PC, running in Remote Operator RS232 MODEM mode.

Run PCR-XFR from the C:\PCR directory. This switches to file transfer mode.

You can now use MDIR, MDEL and MCOPY programs, like RDIR RDEL and RCOPY).

To copy files TO the server, run:

mcopy source-fname 255#target-fname

To copy files FROM the server, run:

mcopy 255#source-fname target-fname

To view the directory, type:

mdir 255#*.*

To delete files, type:

mdel 255#c:\xxx

PC number 0 or 255 stands for PCR RS232 SERVER PC. You can use specific PC number 1 or 2 for file transfer directly to MFS/AFS.

To return to Remote Operator mode, type: **EXIT**

Note

DRVFILE must be loaded in the server. For file transfer while the ISS45 system is down, you can load GPFILE from the C:\PCR directory on the server PC.

GPFILE is a minimum DRVFILE substitute.

RS232 file transfer - batch mode

On the Center server, change directory to C:\PCR

Run GPFILE if DRVFILE is not already loaded.

Run PCR-XFR /MAIN.

On the client PC run MDIR, MCOPY, etc.

Package contents

PCR-C.EXE	Client station program
PCR-S.EXE	Server station TSR
PCR-XFR.EXE	File transfer server program
MCOPY.EXE	File transfer client program
MDIR.EXE	Directory list client program
MDEL.EXE	Delete files client program
MINTF.EXE	Utility for TSR remove, dial, disconnect, etc.
MSEND.EXE	Utility for low level communication with the modem
PCRPRM.EXE	Utility for parameters configuration
PCR.PRM	Active parameter file
PCR.M24	Sample parameter file for Dynamode M24 modem
PCR.M71	Sample parameter file for Dynamode M71 modem
PCR.PNR	Sample parameter file for Penril modem
PCR-CL.EXE	Local LAN client program
EPMC.PRM	Parameter file for PCRPRM program
PCRPRM.MEN	Menu file for PCRPRM program
EPM.MEN	Parameter file for PCRPRM program
GPFIL.EXE	Mini DRVFILE for file transfer with PCMASTER system down
PCHK.EXE	Utility that checks whether DRVFILE/GPFIL is loaded
README.DOC	This DOC file

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