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Taking Control of the System Request Menu

[System iNetwork Systems Management Newsletter](#)

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This issue provides the follow-up to the **CHGPRFEXIT** (Change Profile Exit) command presented in the previous newsletter. Carsten presents here a sample system request menu exit program that adds user defined options to the system request menu. The exit program is called every time the system request function is invoked by a user who has been specified on the CHGPRFEXIT command ([See the last issue for details](#)).

You must register the program presented here in the system exit point registry by using the command WRKREGINF or ADDEXITPGM. The relevant exit point is the System Request Menu Exit Point named QIBM_QWT_SYSREQPGMS. The sample setup program provided will do this step for you.

The exit program is a bit complex, but if you like the nitty-gritty, here it is:

1. Every time a user registered with the presystem request exit point invokes the system request function, the exit point programs are called. Up to eight programs can be added to this exit point and are called in the order from one to eight.
2. The system request line is parsed into an option and a command parameter variable using the strtok C library function.
3. A message ID is built from a predefined prefix and the retrieved menu option and subsequently retrieved from the system request menu message file SRQMSGF by the QMHRTVM (Retrieve message) API.
4. If the message description exists in the message file, the returned message text is used as the command input to the QCAPCMD (Process commands) API. If no such message description is found, the exit point program returns control to the exit point facility, leaving the return code parameter unchanged.
5. If a command is retrieved from the message file, the return code is set to bypass the system request function when the exit point has finished processing all exit point programs.
6. If an error occurs during the command processing in the service program, the exception message is changed to a diagnostic message and percolated back to the calling program by the QMHMOVPM (Move program message) API.
7. The QMHRCVPM (Receive program message) API catches the returned diagnostic messages, and the message text is retrieved and passed to the QUILNGTX (Display long text) API — which in turn displays the message text in a pop-up window. To ensure that the problem is noticed, the QsnBeep (Generate beep) API sends an alarm sound to the terminal session.

Let's make it easy.

To ease the installation and configuration process, Carsten has included a CL program to perform all necessary tasks. The setup program also creates a number of sample system request menu options in message file SRQMSGF, such as the following:

SRQ0021 'WRKJOB'

When the user selects option 21 in the system request menu, the exit program will execute the command WRKJOB.

SRQ0021 is the message ID containing the WRKJOB command. Commands must be added in the message ID format SRQ00nn, where nn is the option number. Menu options in the range 20-99, excluding 80 and 90, are available to add your own system request menu options. However, the added menu options are not displayed on the system request menu panel.

In the message file SRQMSGF, option '00' specifies that WRKMSGD will run, which lets you manage SRQMSGF.

Another message added to the example file is this: **SRQ0032 'GO MENU(&1)**

In this case, when the user enters menu option "32 MAIN" on the system request line, the command GO MENU(MAIN) will be run.

If an error occurs during processing of the command, the error message text is displayed in a pop-up window and an alarm sound is sent to the terminal session.

The following sources are included for the sample system request menu exit program:

CBX946C	CLP	Enhanced system request menu - Sample Setup
CBX946	RPGLE	Enhanced system request menu
CBX946S	RPGLE	Enhanced system request menu - service program

Compilation instructions are included in the source headers.

Please note that service program CBX946S should be qualified on the CRTPGM (Create program) command for the exit program CBX946; this ensures that the exit program will always be able to locate the service program, regardless of the current library list setting.

You can download a zip file containing all the source code from the URL:

<http://www2.systeminetwork.com/noderesources/code/clubtechcode/ChgPrf2.zip>

Note: As with all new programs, test these routines thoroughly before placing them into a production environment. No warranty is expressed or implied.

Source URL: <http://iprodeveloper.com/systems-management/taking-control-system-request-menu>