



APIs By Example: Manage Journal Receivers

[System iNetwork](#)

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In this installment of APIs by Example, I will present the MNGJRNRCV (Manage Journal Receivers) command. The purpose of this command is to offer a quick and safe way to check or clean up a journal receiver directory. The command offers a number of parameters that can be used in conjunction or individually to tailor the selection criteria to meet a variety of requirements.

Here's what you will see when you prompt the MNGJRNRCV command:

```

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                Manage Journal Receivers (MNGJRNRCV)

Type choices, press Enter.

Journal . . . . . Name
Library . . . . . *LIBL Name, *LIBL, *CURLIB
Journal receiver saved before:
  Save date . . . . . *NOCHK Date, *NOCHK, *CURRENT
  Save time . . . . . Time, *BEGIN, *CURRENT
Journal receiver retain days . *NONE 1-999, *NONE
Journal receivers to retain . *NONE 1-999, *NONE
Journal receiver status . . . *SAVED *SAVED, *ONLINE, *PART
Journal receiver option . . . *VERIFY *VERIFY, *DELETE
Force receiver deletion . . . *NO *NO, *YES

=====

```

Here's a brief description of the command's journal receiver selection criteria:

Journal receiver saved before: The date and time before which the journal receiver must have been saved in order to be selected. This criteria is only evaluated for journal receivers having a status of saved.

Journal receiver retain days: The number of days that must have passed since the journal receiver was detached to be included.

Journal receivers to retain: The minimum number of journal receivers to remain in the receiver directory, counting from the currently attached receiver and backwards.

Journal receiver status: Only journal receivers having the specified status are selected. Specify either *SAVED, *ONLINE, *PARTIAL or *NONATTACH. Please note that a currently attached journal receiver is not eligible for selection.

The journal receiver option *VERIFY returns an informational message indicating the number of journal receivers that met the specified selection criteria, whereas the *DELETE option actually deletes the selected journal receivers. Please note that an attempt to delete a journal receiver in the middle of a chain of online receivers will not be allowed, unless the receiver is damaged. This rule is enforced to prevent gaps from occurring in the range of receivers.

Please refer to the MNGJRNRCV command's help text for a more detailed description of each command parameter.

The MNGJRNRCV command also offers a demonstration of the two Journal and Commit APIs, the QjoRetrieveJournalInformation API and the QjoRtvJrnReceiverInformation API. These APIs are capable of returning information similar to the WRKJRNA (Work with Journal Attributes) and the DSPJRNRCVA (Display

Journal Receiver Attributes) commands, respectively.

The QjoRetrieveJournalInformation API offers three possible return formats, one of which, the journal receiver directory listing, is used in the above utility. To demonstrate the use of the two remaining return formats, journaled object list and remote journal information, I have included the sample program CBX126T.

This utility demonstrates the following APIs:

QjoRetrieveJournalInformation API

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/QJORJRNI.htm>

QjoRtvJrnReceiverInformation API

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/QJORRCVI.htm>

Process Commands (QCAPCMD) <http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qcapcmd.htm>

Send Program Message (QMHSNDPM)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/QMHSNDPM.htm>

Move Program Messages (QMHMOVPM)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/qmhmovpm.htm>

Register Call Stack Entry Termination User Exit Procedure (CEERTX)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/CEERTX.htm>

Unregister Call Stack Entry Termination User Exit Procedure (CEEUTX)

<http://publib.boulder.ibm.com/iserics/v5r2/ic2924/info/apis/CEEUTX.htm>

You can retrieve the source code for this utility from

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

The above article was written by Carsten Flensburg. If you have any questions, you can contact Carsten at <mailto:flensburg@novasol.dk>.

Source URL: <http://iprodeveloper.com/rpg-programming/apis-example-manage-journal-receivers>