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Carsten's Corner - New Work with Remote Output Queue Command

[System iNetwork Systems Management Newsletter](#)

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In many IBM i shops, remote output queues offer a simple yet effective mechanism to access printers and printing facilities on other servers or i systems in a TCP/IP network. A remote output queue is simply an extended output queue description allowing you to specify a number of configuration parameters defining the location and type of the printer being connected to.

For example, it's quite simple to create a remote output queue accomplishing the move of spooled files from one system to another, if the two machines are connected on your TCP/IP network. In order to create the remote output queue SYSOUTQ_B on SYSTEM_A pointing to output queue SYSOUTQ_A on SYSTEM_B you'd run the following command on SYSTEM_A:

```
CRTOUTQ OUTQ(QUSRSYS/SYSOUTQ_B)
      RMTSYS(*INTNETADR)
      RMTPRTO('QUSRSYS/SYSOUTQ_A')
      AUTOSTRWTR(1)
      CNNTYPE(*IP)
      TRANSFORM(*NO)
      MFRTYPMDL(*NONE)
      WSCST(*NONE)
      INTNETADR('10.249.80.75')
```

If the remote system is included in SYSTEM_A's host table, you can simply specify the remote system's domain name for the RMTSYS parameter and thus avoid specifying the actual IP address for the INTNETADR parameter. Then run the following command on SYSTEM_B:

```
CRTOUTQ OUTQ(QUSRSYS/SYSOUTQ_A)
      TEXT('SYSTEM_A local output queue')
```

Now, whenever a spooled file goes into status RDY in output queue SYSOUTQ_B on SYSTEM_A it will automatically be moved to output queue SYSOUTQ_A on SYSTEM_B.

Such a setup between two System i servers offers a completely transparent method of directing spooled files to other System i servers, preserving and supporting all spooled file attributes.

For printers connected to Windows or other types of servers, it is sometimes a bit more challenging to get everything working as intended. IBM has therefore created a number of Technical Documents describing in detail how to configure remote output queues in a variety of scenarios. There are also a number of configuration options and settings that will help you tailor a remote output queue to meet your specific needs. I have included links to some of the most helpful technical documents at the end of this article, should you need tips and guidance in this area.

The range of native System i CL commands available to support remote output queue include the following commands:

- Create Output Queue (CRTOUTQ)
- Change Output Queue (CHGOUTQ)
- Delete Output Queue (DLTOUTQ)
- Start Remote Writer (STRRMTWTR)
- Work with Writers (WRKWTR)
- End Writer (ENDWTR)

As for the WRKWTR command, in order to include remote output queues in the presented list, you need to specify **WRKWTR WTR(*ALL)**. Optionally you can specify an OUTQ parameter defining a specific output queue name to narrow the list to that output queue only. Note however, that only remote output queues that currently have an active writer job running will be included in the list.

Also, only the most common attributes of writers in general are displayed in the WRKWTR command's list panel.

So, to effectively work with, and maintain control over remote output queues I've created a dedicated Work with Remote Output Queues (WRKRMTOUTQ) command:

```

Work with Remote Output Queues (WRKRMTOUTQ)

Type choices, press Enter.

Remote output queue . . . . . *ALL      Name, generic*,
*ALL
Library . . . . . *ALL      Name, *ALL,
*ALLUSR...
Output . . . . . *          *, *PRINT

```

You can specify a specific remote output queue name, a generic output queue name, or the special value *ALL. The latter option causes all remote output queues currently configured on your system to be included in the list presented. If you prefer the output queue information in print, the Output

parameter allows you to direct a subset of the output queue information to be printed with the current job's spooled output. The WRKRMTOUTQ command and its parameters are documented in detail by the help text panel group associated with the command. When directed to a screen the displayed list has the following appearance and initially shows the following columns:

```

                                Work with Remote Output Queues

WYNDHAMW
28-05-10
22:33:58
Type options, press Enter.

    1=Start    2=Change    3=Hold    4=End    5=Work with    6=Release
7=Messages
    8=Job      9=Ping     10=Output queue  11=Manage    12=Description
14=Copy

    Remote      Remote      Remote      Queue
    Writer
    Opt Queue   Sts   System      Printer queue
Status status
    JAKEP01     STR   WHWSYS      WYNDDEV/JAKE   *RLS
    *PND
    BERRQ01     STR   CPH-PRT-01   BEIND01        *RLS
    *PND
    CPHRQ01     STR   CPH-PRT-01   CPIND01        *RLS
    *PND
    CPHRQ02     STR   CPH-PRT-01   CPIND02        *RLS
    *PND
    HAMRQ01     STR   CPH-PRT-01   HAIND01        *RLS
    *PND
    HAMRQ01     STR   CPH-PRT-01   HAIND02        *RLS
    *PND
    OSLRQ01     STR   CPH-PRT-01   OSIND01        *RLS
    *PND
    PARRQ01     STR   CPH-PRT-01   PAIND01        *RLS
    *PND
    STORQ01     END   CPH-PRT-01   STIND01        *RLS
    *PND
    VENRQ01     STR   CPH-PRT-01   VEIND01        *RLS
    *PND

More...
Parameters or command

===>

F4=Prompt    F5=Refresh    F6=Create output queue    F10=Active

```

```
writer jobs
  F11=View 2    F12=Cancel    F22=Display entire field    F24=More keys
```

The list panel provides *a total of four different views* of the OUTQ attributes, including most of the significant remote output queue attributes. You toggle between the four views using the function key F11. All columns and panel areas are explained in more detail using the cursor sensitive help text. Simply point the cursor to the column or area of interest and press function key F1.

The various list options allow you to perform a number of writer functions (starting, changing, holding, ending, working with, releasing and answering messages for) against each of the writer jobs associated with the remote output queues listed. You can also run different output queue related commands, ping the remote system as well as work with the writer job, whose job log is often a crucial source of information in case you run into trouble getting the spooled files to arrive at the remote location.

Local Area Network (LAN) writers are a more recent and versatile alternative to remote output queues which unlike remote output queues are created as true printer device descriptions. At many sites however, it is not a simple remote output queues nor a LAN printer device, but rather a combination of both.

To help you determine your own implementation situation, I've included a couple of IBM Technical Documents discussing this topic in detail, and also a link to an article including a utility similar to the WRKRMTOUTQ command, but specifically supporting LAN printers instead.

The following source members are involved in creating the WRKRMTOUTQ command:

- CBX999 -- RPGLE -- Work with Remote Output Queues - CPP
- CBX999E -- RPGLE -- Work with Remote Output Queues - UIM Exit Program
- CBX999H -- PNLGRP -- Work with Remote Output Queues - Help
- CBX999P -- PNLGRP -- Work with Remote Output Queues
- CBX999V -- RPGLE -- Work with Remote Output Queues - VCP
- CBX999X -- CMD -- Work with Remote Output Queues
- CBX999M -- CLP -- Work with Remote Output Queues - Build command

[Download a zip file containing these source members.](#)

To create all above objects, compile and run CBX999M, following the instructions in the source header. As always, you'll also find compilation instructions in the respective source headers.

NOTE: For the WRKRMTOUTQ command's list panel's option 7=Messages to work when a specific message is being waited for, you'll need to download and create the Additional Message Information panel included with the article found at the link below.

[Additional Message Information Panel](#)

[Work with LAN Printer Command](#)

IBM Technical Documents

[Capabilities and Limitations of Remote Output Queues \(RMTOUTQs\)](#)

[Configuring a Remote Output Queue \(RMTOUTQ\)](#)

[Recommended Remote Printer Queue Values for Remote Output Queues \(RMTOUTQs\)](#)

[TSPRWPR Remote Writer Page Range Support Exit Program](#)

[Configuring a *LAN 3812 PjL Device Description](#)

[Configuring a *LAN 3812 Device Description that Uses the LPR Print Driver \(TSPLPRD\) Exit Program](#)

[Creating a Dummy Device Description to Use with a Remote Output Queue \(RMTOUTQ\)](#)

Source URL: <http://iprodeveloper.com/systems-management/carstens-corner-new-work-remote-output-queue-command>