

REPORT MANAGER

Version 2 Release 1 Modification 0
Enhancement Summary
Program Number 2A55-RM1

Thirteenth Edition (March 2004)

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Installation Instructions

Restoring the new release

Read the Enhancement Summary to determine if any changes affect your installation. Follow these instructions to install Report Manager V2R1M0 on your iSeries Server:

Note: If you have downloaded this software from the web, instructions specific to installing from the download can be found in the file "readme.htm" which is included in the download.

1. Sign on to the system as the security officer (QSECOFR).
2. Verify that your machine is at OS/400 V5R1M0 or later by running:

```
DSPDTAARA DTAARA(QGPL/QSS1MRI)
```

Note: If you are running a version of OS/400 earlier than V5R1M0 you can not install Report Manager V2R1M0 on your machine. You must install an earlier version of Report Manager or upgrade the operating system.

3. Verify that user domain objects are allowed in the libraries RPTMGR and QSRV, by running:

```
WRKSYSVAL SYSVAL(QALWUSRDMN)
```

Take option 5 to display the value. If the value is not *ALL, use option 2 to add libraries RPTMGR and QSRV to the list of libraries where user domain objects are allowed.

Note: QSRV is required to correctly process PTFs when they are loaded and applied.

4. Mount the distribution media in the appropriate device.
5. Submit the Restore Licensed Program (RSTLICPGM) command to batch:

```
RSTLICPGM LICPGM(2A55RM1) DEV(device-name) LNG(2924)
```

Note: "device-name" is the device the media was mounted on and is usually OPT01.

6. Enter your permanent authorization code.
7. Determine which PTFs were included on the media by entering the following command:

```
DSPPTF LICPGM(2A55RM1)
```

A list of current PTFs can be found at www.gumbo.com. If there are newer PTFs available, download and apply them. The bottom of our PTF web page also includes a listing of any IBM PTFs that affect the product.

Enhancements for Report Manager Version 2 Release 1 Modification 0

What's In This Section

This section provides information on Report Manager enhancements for the current release, notes any customer code implications, and describes where to find more information when applicable.

Paper Manual Removed From New Release Materials

The paper manual has been removed from the new release materials. The contents are available as help text (Option 1 from the menu) and as printable PDFs located in the /Gumbo/Proddata/2A55RM1/doc directory on your system.

California Customers Do Not Receive CD

The California Board Of Equalization asserts that mailing a CD to California is equivalent to opening an office in the state for the purposes of forming a nexus and thus requires the collection of state sales tax. We believe the assertion will ultimately be overturned but aren't willing to argue the point ourselves. Until then California customers can download the new release from <http://www.gumbo.com/downloads.html>

Display Page Data (DSPPAGDTA) Command Added

A new command, Display Page Data (DSPPAGDTA), has been added to Report Manager. The command allows you to display selected data from within a spooled file. The command supports output to a display, to print, and most interestingly to an output file.

For example, by displaying the page position of the customer number in spooled files containing invoices, you can create an index from customer number to the related spooled files that contain their invoices.

The command takes the identity of a spooled file and page data selection as input. The page data parameter allows you to specify the line, position, and length of the data to be retrieved from each page. Additionally, the page data parameter allows you to specify that "off page" data, such as that specified on the DDS STRPAGGRP() and DOCIDXTAG() keywords, should be retrieved. Multiple page data specifications are support.

The display page data record PDPAGDRF is in model file RMPAGDD which is used by the Display Page Data (DSPPAGDTA) command to generate output files.

PDPAGDRF is made up of several groups of fields that describe an element of the page.

- o Spooled file. These fields provide information about the spooled file from which the data was taken.
 - PDJSYS** Name of the system where the job that created the spooled file ran.
 - PDJJOB** Name of the job that created the spooled file.
 - PDJUSR** Name of the user who produced the spooled file.
 - PDJNBR** Number of the job in the system.
 - PDJSPF** Name of the spooled file.
 - PDJSP#** Spooled file number within the job.
- o Location. These fields describe the location of the data in the spooled file.

- PDPAGE** Page number.
- PDLINE** Line number the data appears on. The possible special values and their meanings are:
- 53 = *DOCIDXTAG**
The data was added to the spooled file using the DDS DOCIDXTAG() keyword at either the page level or group level.
 - 54 = *DOCIDXPAG**
The data was added to the spooled file using the DDS DOCIDXTAG() keyword at the page level.
 - 55 = *DOCIDXGRP**
The data was added to the spooled file using the DDS DOCIDXTAG() keyword at the group level.
 - 56 = *STRPAGGRP**
The data was added to the spooled file using the DDS STRPAGGRP() keyword.
 - 57 = *DOCIDXTAGP**
The data was added to the spooled file using the DDS DOCIDXTAG() keyword at the page level, group level or was propagated from the group level to all pages in the group.
 - 58 = *DOCIDXGRPP**
The data was added to the spooled file using the DDS DOCIDXTAG() keyword at the group level or was propagated from the group level to all pages in the group.
 - 59 = *STRPAGGRPP**
The data was added to the spooled file using the DDS STRPAGGRP() keyword or was propagated from the keyword to all pages in the page group.
- PDPOS** Position on the line the data starts. When **PDLINE** contains one of the special values, **PDPOS** is zero.
- o Data. These fields contain the data.
 - PDVLEN** Length of data contained in the following field.
 - PDVDTA** Data retrieved from the page. When **PDLINE** is one of the special values related to the DDS STRPAGGRP() keyword, **PDVDTA** contains the "group-name" specified. When **PDLINE** is one of the special values related to the DDS DOCIDXTAG() keyword, **PDVDTA** contains the "attribute-value" specified.
 - PDNLEN** Length of data contained in the following field.
 - PDNDTA** Name data. When **PDLINE** is one of the special values related to the DDS DOCIDXTAG() keyword, **PDNDTA** contains the "attribute-name" specified otherwise it is blank.

DSPMAILLOG Added To Admin Menu

The Display Mail Log (DSPMAILLOG) command, which was added to Report Manager in an earlier release, has been added to the "Report Manager Admin" (RPTADM) menu to make it easier to find. The command is invaluable for determining the disposition of e-mail given to i5/OS (OS/400) for delivery. To enable the command you must turn on i5/OS (OS/400) SMTP journaling by running CHGSMTPA JOURNAL(*YES).

CRTRPT Prompt Order Corrected

An error in the Create Report (CRTRPT) command definition source caused the Authority (AUT) parameter to appear first when the command was prompted.

***NULL Writer Shut Down Corrected**

A shut down timing error sometimes caused a *NULL device report writer to leave spooled files in the internal output queue in error.

***CURLIB Processing Improved**

Processing for *CURLIB now accounts for the case where the jobs value is *NONE. In this case QGPL is used.

Better System *USRIDX Avoidance

Report Open function does a better job of avoiding i5/OS (OS/400) supplied *USRIDXs, thus avoiding more MCH6801 and MCH3601 in the joblog. Now any Q* *USRIDX in library QUSRSYS and *ALL *USRIDX in library QSYS are bypassed as "known not to be Report Manager reports".

New MRGSPLF Page Sort Key Special Value Added

A new Page Sort Key line number special value, *STRPAGGRP has been added to the Merge Spooled File (MRGSPLF) command. For *AFPDS spooled files, the DDS STRPAGGRP/ENDPAGGRP keywords can be used to group and identify groups of related pages, for example to group all pages of an invoice as a logical unit. For *AFPDS spooled files containing STRPAGGRP/ENDPAGGRP generated tags, the new special value *STRPAGGRP can be specified as the page sort criteria. The name specified on the STRPAGGRP keyword is used as the value of the page for each page in the group for the purpose of sorting.

MRGSPLF Page Sort Key Length Value Increased

The Page Sort Key length on the Merge Spooled File (MRGSPLF) command has been increased from 16 to 64. This allows page sorting to consider more data from each page.

Authorization Component Corrections And Updates

- o Authorization code now enforces requirement that *LPAR license is run on a partitioned machine. If a formally partitioned machine becomes unpartitioned while the software is running under an *LPAR license, a grace period is granted.

Font Processor Corrections And Updates

- o Parsing of type 1 font pfb data resulted in unsightly "C2M1212 - The pointer parameter passed to free or realloc is not valid." messages in the joblog. These are correct.
- o When parsing font character sets that do not declare nominal size information, the missing information is taken from base font information table if available.
- o Information for additional Elixir fonts added to base font information table.
- o Four Traditional Chinese character set name definitions, inadvertently remove from base font information table, were replaced.
- o Prompting the TXTRELPOS() parameter caused the prompter to end in error because the special values were made up of undisplayable low hex in a character field. Parameter is now declared as *INT2 and the special values are displayed as numbers.
- o At V5R2M0 OS/400 adds a x1F font descriptor triplet to raster fonts specified as host resident exposing a font sizing error. Triplet should not have been applied to font and was.
- o At V5R2M0 OS/400 DBCS Font Collection includes new outline technology fonts that

have non-standard construction. These caused MCH3601 when using CRTSPLSAVF to save a spooled file that specifies them.

Integrated File System Component Corrections And Updates

- o Added zero suppressing binary data type processing for path resolution.

MODCA Processor Corrections And Updates

- o Enabled processing of medium map specified constant back overlays and add exports.
- o Enabled processing of medium map specified text suppression local ids.
- o Enable Begin Page invoking of medium map through triplet x'02' Fully Qualified Name's type x'8D' Begin Medium Map Reference type code.
- o Internal change to allow sharing of font stack during resource processing for SCS and IPDS.
- o Enabled processing of overlays specified in medium maps.
- o External Resource Group specified in a spooled file's print data stream is mapped and processed in the required order.
- o External resource name now posted internally during mapped resource processing.

Print Data Stream Processor Corrections And Updates

- o Added exports to retrieve page count and selected count from page maps.
- o Default print data stream manager now waits for data from an incomplete and open spooled file to become ready instead of failing with message id CPF33D7.

Program Distribution Corrections And Updates

- o Product installation preserves any product job descriptions when a new release is installed over an old release in order to preserve any customer changes. This caused the CHKPRDOPT command and the Verify that Report Manager is installed correctly menu option to show a failure. The product exit program has been changed to allow job descriptions from an old release to be honored as "present".

PTOCA Processor Corrections And Updates

- o Corrected SetExtendedColor control processing. Previously it was overlay suppression codes and erroneously suppressing text.
- o Enabled text suppression through text suppression local ids and added exports.

Spool Indexing Corrections And Updates

- o Indexer updated to support page data retrieval and mapping by other components.
- o Indexer now only creates lower level OCA environments when they are needed to service the indexing request, avoiding processing and speeding tag based indexing.

Send Mail Component Corrections And Updates

- o An error in the QtmmSendMail() api causes the second and subsequent sends to fail on systems without a QPRTVALS data area. The error has been papered over and PMR49413 submitted to IBM.
- o Add functions and exports to handle editing and adding object lists to mail message.
- o Email address parser was mishandling domains and routes that contain seldom used but legal characters such as the underscore (_).
- o Add "application/pdf" content type processing for attached files.

- o Text files added as a message are now added using "quoted-printable" encoding resolving a problem with text data that contained decimal points in awkward positions confusing some mail clients.
- o *OBS special value was added to the Confirmation of delivery (CFMDEL) parameter. With it, confirmation of delivery is requested as with *YES but the obsolete non-standard "Return-Receipt-To" header field is also included in the message. Some mail user/transport agents understand the obsolete field but don't understand the standard "Disposition-Notification-To" supplied by *YES.
- o Date: is now generated with a single space between the year and the time as RFC-2822 recommends. Previously the i5/OS (OS/400) convention of 2 spaces was used.

Spool Component Corrections And Updates

- o Displaying a spooled file message has been improved. Clearer error messages are issued in all cases of a failure and the work space created for processing is now always deleted.
- o Processing for the Create Spooled Save File (CRTSPLSAVF) command's Save file (SAVF) parameter was not correctly handling the case when the library was specified as *CURLIB and the job does not have a *CURLIB. In this case the command failed with message id CPD0078. Now the library name QGPL is substituted.
- o Error handling and clean up on failure enhanced for the Create Spooled Save File (CRTSPLSAVF) command. Authority problems no longer result in an empty save file.
- o Merging a single spooled file without a page sort key (effectively a copy) and taking the output queue default of *FIRST resulted in the new spooled file being placed in QPRINT in all cases. The problem was corrected.
- o Added *SPLNBRZ path special value which substitutes the spooled file's number with leading zeros suppressed.
- o Added *PAGECNTZ path special value which substitutes the spooled file's page count with leading zeros suppressed.
- o Added *PAGECOUNT path special value which substitutes the number of pages from the spooled file's attributes.
- o Added *USRDFNDDTA path special value which substitutes the user defined data from the spooled file's attributes.
- o Added *USRDFNTXT path special value which substitutes the user defined text from the spooled file's attributes.

Text Generation Corrections And Updates

- o Generator updated to share existing print data stream cursor when available.