

REPORT MANAGER

Enhancement Summary V2R2M0
Program Number 2A55RM1

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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 V2R2M0 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 i5/OS (OS/400) V5R2M0 or later by running:

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

Note: If you are running a version of i5/OS (OS/400) earlier than V5R2M0 you can not install Report Manager V2R2M0 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.

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.
Note: You may receive message CPA3DE4 "Directory not registered. (C G)" (three times). If so, take option "G".

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

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

8. Visit www.gumbo.com to determine if newer PTFs are available.

Enhancements For Report Manager V2R2M0

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.

Spool Index SCS Control SIXSIC() Parameter Added

A new parameter, Spool Index SCS Control (SIXSIC), has been added to Report Manager's CHGRM1DFT command. The parameter specifies the spooled file indexing method for *SCS files in the presence of lines per inch (LPI) changes or font changes within a page. Spooled file indexing occurs when line and position values are required to process a request. Examples are filtering, or specifying page data. This setting can only affect the determination of line numbers if the spooled file contains *SCS and if the LPI or font changes within a page. The possible values are:

***SAME**

The value is not changed.

***ORDINAL**

This is the recommended value. Line numbers and position numbers are calculated using a deterministic, repeatable method that typically returns line and position values as they were specified in the DDS for the printer file.

***RELATIVE**

This value gives the original indexing behavior. The method returns line and position numbers that may vary from page to page for data that otherwise appears in the same position. The variance depends on the data's position relative to preceding data on the page.

The value shipped with the product is the recommended ***ORDINAL** and during a clean install this is the value that results. All previous releases of the product are considered to have had ***RELATIVE** and this value is preserved when this release is installed over a previous release. We recommend existing installations update to the and preferred ***ORDINAL** value.

Retrieve Page Data (RTVPAGDTA) Command Added

A new command, Retrieve Page Data (RTVPAGDTA), has been added to Report Manager. The command allows you to retrieve selected data from within a spooled file.

For example, by retrieving the page position of the customer number in a spooled file containing an invoice, you can determine the customer number for which the invoice was generated from within a CL program.

The command takes the identity of a spooled file, a CL variable name, page data selection and a page number as input. The page data parameter allows you to specify the line, position, and length of the data to be retrieved from the 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.

ADD/CHGRPTFTR Now Process Generics

The commands Add Report Filter (ADDRPTFTR) and Change Report Filter (CHGRPTFTR) now process requests against generic report names. Previously the commands only supported a specific report name.

AFP Processor Corrections And Updates

- o Enhance print data stream processing to distinguish header info from between page data.
- o AFP data stream processing now bypasses garbage found at the end of some old print resources.

Authorization Component Corrections And Updates

- o Check Report Manager Authorization (CHKRM1AUT) command added. The command exercises the product's authorization verification function. This allows you to determine whether the product is authorized for use. If the product is not permanently authorized, the generated messages allow you to determine when the temporary authorization will expire. You may specify a message queue to receive messages generated when the product is not permanently authorized.

Font Processor Corrections And Updates

- o Previously font processing interpreted a spooled file's "DBCS data" attribute to mean there was DBCS data in the file and grew alarmed when it could not find the related font specification (i.e. failed). Some applications (i.e. BPCS) always have the flag set, even on single byte machines. Processing has been updated to interpret "DBCS data" to mean "might have" if the source ccsid is single byte.
- o When the definition of a character set is needed to process a font, an internal table is consulted. The internal table contains information on a large number of IBM and some Elixir fonts. Previously if the table did not contain a particular character set, default values were used. Now, an attempt is made to retrieve the definition directly from the character set when it is not found in the table. This provides better support for home brew fonts.
- o The base font used by a spooled file that does not otherwise specify a font was calculated incorrectly for all spooled files other than character set 697, codepage 37.
- o Updated font base data table with additional character set data for Greek, Cyrillic, etc.
- o Updated font base data table with additional *FGID imbedding data for Greek, Cyrillic, etc.
- o Updated font base data table with addition of missing font global identifier modification entries to correct *FGID 404 rendering problem.
- o Updated font base data table with addition of undocumented graphic character set global id substitution entries to correct *FGID imbedding of OCR font 19.

Integrated File System Component Corrections And Updates

- o Functions and parameters to allow the updating of stream files have been added.
- o New *INHERIT special value was added to the Data authorities (DTAAUT) parameter.

When specified the *PUBLIC and other authorities to the object are copied as follows. The owner, primary group, and public data and object authorities (*R, *W, *X, *OBJEXIST, *OBJMGT, *OBJALTER, and *OBJREF) are copied from the parent directory's owner, primary group, and public data and object authorities. In addition, the private authorities (if any) and authorization list (if any) are copied from the parent directory. If the new file has a different owner than the parent directory and the new file's owner has a private authority in the parent directory, that private authority is not copied from the parent directory. The authority for the owner of the new file is copied from the owner of the parent directory.

- o The maximum stream file size that can be generated has been increased to 256 Gig from 2 Gig.
- o Functions and parameters to allow the specification of additional object attributes at stream file creation time have been added. These are the attributes of the CHGATR command.

IPDS Processor Corrections And Updates

- o Enhance print data stream processing to distinguish header info from between page data.
- o Page size miscalculated for some spooled files when multiple font specified.

MODCA Processor Corrections And Updates

- o Enhance print data stream processing to distinguish header info from between page data.
- o MO:DCA data stream processing now bypasses garbage found at the end of some old print resources.
- o Spooled file resource processing was extended to optionally include font processing.

Mail Set Up Corrections And Updates

- o When DSPMAILLOG command fails, clean up code was removing wrong message making it hard to diagnose problems.
- o The Verify/Set Up Local SMTP (VFYLOCAL) command's Internet Gateway processing has been made optional for the products that include it. This is for backward compatibility. The processing is removed from most products.

Print Data Stream Processor Corrections And Updates

- o Add function and export to allow mapping of document header data in spooled files.
- o Default print data stream manager's internal buffering now buffers entire spooled file regardless of size. This greatly increases performance when traversing very large spooled files multiple times.
- o Open spooled files are now closed as soon as final buffer is pulled, effectively raising the number of spooled that can be processed "simultaneously".

SCS Processor Corrections And Updates

- o Enhance print data stream processing to distinguish header info from between page data.

- o Parser was updated to correct processing of Set Line Density control code affecting the bottom margin in rare spooled files.
- o Parser was updated to introduce the notion of marks being placed on a page outside of the data stream. This affects page ejection in the presence of overlays.
- o Character set and code page (gcsgid/cpgid) for default fonts now set correctly for all languages.
- o New exports were added to allow file generators to determine the current superscript/subscript status of the data stream.

Spool Indexing Corrections And Updates

- o Spool indexing now accounts for the difference between document header data and data that is "before the first page" and segregates them.
- o Dump Page Index Positions (DMPPIP) command fails with MCH1210 unless page range end specified.
- o Dump Page Index Positions (DMPPIP) command report heading "Ending page" was misspelled.

Send Mail Component Corrections And Updates

- o E-mail address processor now allows multiple comma separated addresses per address line. This is handy, for instance, for passing more than one address out of a user written address mapping program.

Spool Component Corrections And Updates

- o Target release processing in the Create Spooled Save File (CRTSPLSAVF) command has been improved to insure a save is produced.
- o The Create Spooled Save File (CRTSPLSAVF) command now includes product and release information in the saved materials.
- o The Merge Spooled File (MRGSPLF) command now supports page range specification for each of the input files.
- o Merging of *AFPDS spooled files now retains exterior data before a page with the page. Invoke media map commands now remain with the page they precede for example.
- o The number of spooled files that can be specified on the Merge Spooled File (MRGSPLF) command has been increased from 16 to 128.

Text Generation Corrections And Updates

- o A buffer initialization error was producing incorrect data for the first line of text for some CCSID combinations.