

Dicer

Enhancement Summary

Licensed Program 2A55DCR V1R7M0



Spooled File Conversion

Dicer

Enhancement Summary V1R7M0
Product Number 2A55DCR

Contents

- Contents..... iii**
- Edition 5**
- Installation Instructions 7**
- Enhancements For Dicer V1R7M0 9**
 - What's In This Section9
 - Spool Merge Changes9
 - Font Processor Changes9
 - FreeType Changes9
 - Graphic Object Processing Changes.....9
 - Integrated File System Changes9
 - MODCA Processor Changes10
 - National Language Support Changes.....10
 - Print Data Stream Processor Changes.....10
 - Program Distribution Changes.....10
 - SCS Processor Changes10
 - Spool Indexing Changes10
 - Spool Management Changes.....10

Edition

Seventh Edition (April 2011)

GUMBO
Software, Inc.

809 W Howe St
Seattle, WA 98119
United States of America
Phone: 206-284-5078
Email: support@gumbo.com
Web: www.gumbo.com

© Copyright Gumbo Software, Inc. 2002, 2011. All Rights Reserved.

Installation Instructions

Follow these instructions to install Dicer V1R7M0 on your System i:

Prepare

If you are upgrading a previous release (if Dicer is currently installed on your System i) perform these steps before installing the software:

1. Read the Enhancement Summary to determine if any changes affect your installation.
2. Insure that the product is not in use, as the installation process must clear the product's library. This will fail if objects such as menus are in use. If the installation fails, the previous release will be restored.

Install

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 was included.

1. Sign on to the system as the security officer (QSECOFR).
2. Verify that your machine is at IBM i V6R1M0 or later by running:

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

Note: If you are running a version of IBM i earlier than V6R1M0 you cannot install Dicer V1R7M0 on your machine. You must install an earlier version of Dicer or upgrade the operating system.

3. Verify that user domain objects are allowed in the libraries DICER 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 DICER 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. Insure that IBM i will be able to verify the signatures that we apply to our product's objects by installing our Signing Certificate and Root CA Certificate using Digital Certificate Manager. Alternately, insure that signature verification will not prevent the restore operation by running:

```
WRKSYSVAL SYSVAL (QVfyOjRST)
```

Take option 5 to display the value. If the value is 3 or higher, use option 2 to temporarily change the value to 1.

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

```
RSTLICPGM LICPGM(2A55DCR) DEV(device-name) LNG(2924)
```

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

Note: During the restore operation, the system operator message queue may receive inquiry message CPA3DE4 "Directory not registered. (C G)". Unless you are using a directory naming convention similar to ours (that is the directory specified in the CPA3DE4's second level text is unrelated to our software), you can safely respond with a "G" to reestablish the relationship between the directory and the product. Typically, the message will occur three times.

Finish

When the RSTLICPGM command completes, library DICER and directory '/Gumbo/ProdData/2A55DCR' contain the new software. To complete the installation:

1. If you have an Authorization letter with your permanent authorization code, enter it now.

Note: Dicer automatically grants 30 days usage for new installs or 90 days usage for release upgrades.

2. Determine which PTFs were included on the media by entering the following command:

```
DSPPTF LICPGM(2A55DCR)
```

3. Visit www.gumbo.com to determine if newer PTFs are available. If so, download and install them. The bottom of our PTF web page also includes a listing of any IBM PTFs that affect the product.

Note: **GUMBO** recommends downloading the current cumulative PTF package from www.gumbo.com after installing the software.

4. You can access the Dicer menu by entering the following command:

```
GO MENU(DICER/DICER)
```


Enhancements For Dicer V1R7M0

What's In This Section

This section provides information on Dicer enhancements for release V1R7M0, notes any customer code implications with a **COMPATIBILITY WARNING**, and describes where to find more information when applicable.

Spool Merge Changes

- The Merge Spooled File (MRGSPLF) command now sends an information message identifying each new spooled file created.
 - At V7R1M0, IBM's List Spooled File AFPDS Resources (QGSLRSC) API changes behavior with regards to missing resources. Changes were made in our logic to account for the difference in order to give the same results when resolving resources used by spooled files.
 - Processing of AFPDS spooled files containing BNG/ENG structure field bounded page groups with field tags resulted in mismatched tags under some merge/split/copy operations.
 - Added copy cursor facility to allow clients to request that a message identifying the created spooled file is sent to the joblog.
-

Font Processor Changes

- Previously, when processing fonts specified using DDS' FONTNAME() keyword, only IBM supplied fonts could be located. Now, the search for fonts follows the method used by IBM i, and user supplied fonts are correctly located and processed.
 - For DBCS data, font size is ordinarily specified; usually by the QIGCCDEFNT system value. In the absence of a DBCS font specification, a value is calculated based on the spooled file's other attributes. The value calculated resulted in characters that overlapped from line to line in some circumstances. The calculation has been modified to avoid this.
 - Horizontal Scale Factor triplet was being applied to GRID specified font mappings in *AFPDS spooled files and shouldn't have been. Most GRID based font mappings don't include the triplet, but those that do ended up with incorrectly sized fonts.
 - Internal font tables erroneously mapped character set C0S0CB12 to Fgid 108 instead of Fgid 110 resulting in missing bold attribute in some instances.
-

FreeType Changes

- Added functions to open and close font file paths coded in any CCSID.
 - Initial build. Portions of FreeType.org's FreeType library have compiled into a service program to parse font files and retrieve information from them.
-

Graphic Object Processing Changes

- Enable external control of the device default behavior of the graphics processor.
-

Integrated File System Changes

- An internal table was missing '\ ' code points for CCSIDs 1130, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1153, 1154, 1155, 1156, 1157, 1158, 1160, 1164, 1388, 1399, 4971, and 5026. As a result, path normalization from '\ ' to '/' did not work correctly in these csids.

MODCA Processor Changes

- New export to retrieve the currently active Medium Descriptor.
- Wrong overlay was selected from formdef. Triplet FQN (Fully Qualified Name) now checks for a name that is less than 8 bytes when loading the DSNAM8 value, and blank fills.

National Language Support Changes

- Added new function to open conversion descriptors that track conversion substitution counts.

Print Data Stream Processor Changes

- Added print data stream sink facility to allow clients to request that a message identifying the created spooled file be sent to the joblog.

Program Distribution Changes

- Additional manual sections with product usage information added.

SCS Processor Changes

- Added export and changes to allow more accurate position calculations when *EXACT specified, benefiting underline of variable typographic fonts.

Spool Indexing Changes

- Propagating special values such as *DOCIDXGRPP and *STRPAGGRPP failed to properly propagate for the first page group.

Spool Management Changes

- CRTSPLSAVF command now includes user defined objects specified on the spooled file when creating the save file.