

DICER

Enhancement Summary V1R4M0
Program Number 2A55DCR

Third Edition (May 2006)

GUMBO *Software, Inc.*

809 W Howe St
Seattle, WA 98119
United States of America

Phone: (206) 284-5078
Fax: (206) 284-5029
E-mail: support@gumbo.com
Web: www.gumbo.com

| | |
|---|---|
| Installation Instructions | 4 |
| Restoring the new release | 4 |
| Enhancements For Dicer V1R4M0 | 5 |
| What's In This Section | 5 |
| Retrieve Page Data (RTVPAGDTA) Command Added | 5 |
| Spool Index SCS Control SIXSIC() Parameter Added | 5 |
| Product Integrity Enhancements | 6 |
| Spool Merge Corrections And Updates | 6 |
| Spool User Interface Corrections And Updates | 6 |
| AFP Processor Corrections And Updates | 6 |
| Authorization Component Corrections And Updates | 6 |
| Font Processor Corrections And Updates | 6 |
| IPDS Processor Corrections And Updates | 7 |
| MODCA Processor Corrections And Updates | 7 |
| Print Data Stream Processor Corrections And Updates | 7 |
| PTOCA Processor Corrections And Updates | 7 |
| SCS Processor Corrections And Updates | 8 |
| Spool Indexing Corrections And Updates | 8 |
| Spool Component Corrections And Updates | 8 |

Installation Instructions

Restoring the new release

Read the Enhancement Summary to determine if any changes affect your installation.

Follow these instructions to install Dicer V1R4M0 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 Dicer V1R4M0 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.

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

```
RSTLICPGM LICPGM(2A55DCR) 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. © 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(2A55DCR)
```

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

Enhancements For Dicer V1R4M0

What's In This Section

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

Retrieve Page Data (RTVPAGDTA) Command Added

A new command, Retrieve Page Data (RTVPAGDTA), has been added to Dicer. 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.

Spool Index SCS Control SIXSIC() Parameter Added

A new parameter, Spool Index SCS Control (SIXSIC), has been added to Dicer's CHGDCRDFT 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.

Product Integrity Enhancements

Objects and the save files that contain them are digitally signed by Gumbo when they are created on our development system. You can verify that their contents have not been altered or corrupted since they were produced. You do this by first importing the our root certificate authority (CA) and object signing certificates to your system and then running the Check Object Integrity (CHKOBJITG) command against them. For detailed instruction on importing certificates for signature verification using the CHKOBJITG command, see IBM's manual "Digital Certificate Manager RZAH-U000".

Note: We uniquely name our digital certificates to simplify their management on your system. If you have previously imported digital certificates from us with the same name as those included in this package, you do not need to repeat this step.

Certificates can be found in downloads that contain save files as well as in the product's /doc directory after it is installed.

Spool Merge Corrections And Updates

- 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.

Spool User Interface Corrections And Updates

- o WRKGSISPLF and WRKGSIOUQ panels have been enhanced. Previously when option 15=Merge was entered for multiple spooled files, multiple MRGSPLF commands were prompted. One for each spooled file. Now, all spooled files are included on a single MRGSPLF command.

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 Dicer Authorization (CHKDCRAUT) 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 Corrected recent list processing to return the same return code on all calls.
- o Font base definition tables were extended to include i5/OS fonts for the new DDS FONTNAME() keyword.

- o New functions added to process DDS FONTNAME() keyword.
- o Detection for DBCS spooled files has been improved for spooled files that specify IGCDTA(*NO) but in fact contain DBCS data.
- o DBCS font selection improved for spooled files that specify IGCCDEFNT(*SYSVAL) on a machine where the QIGCCDEFNT system value has not been set. Selection now depends on IGCCPI() and CPI() values specified on the spooled file.
- 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.

IPDS Processor Corrections And Updates

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

MODCA Processor Corrections And Updates

- o MO:DCA data stream processor now processes MDR (Map Data Resource) SFIs for font specifications.
- o MO:DCA specifies that a print text descriptor is required in an environment group. However some generators (Elixir) omit the descriptor. This is now tolerated when processing the data stream.
- 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.

Print Data Stream Processor Corrections And Updates

- o Corrected and & or operations on mismatched page maps.
- o Add function and export to allow mapping of document header data in spooled files.

PTOCA Processor Corrections And Updates

- o Odd Elixir splitting of print text data in print resources (*PAGSEG *OVL) was previously mishandled resulting in missing data. Parser now correctly handles straddling unchained control sequences.

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.

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.

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.