

CA Spool™

Release Notes

Version 12.0



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CA Technologies Product References

This document references the following CA Technologies products:

- CA ACF2®
- CA Bundl®
- CA Deliver™
- CA Dispatch™
- CA Mainframe Software Manager™ (CA MSM)
- CA Chorus™ Software Manager™ (CA CSM)
- CA Chorus™
- CA Top Secret®
- CA View®

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- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

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Chapter 1: New Features

This section contains the following topics:

[AFP to PCL Soft Font Support for the CA Spool Java Transformers](#) (see page 7)

[AFP USERLIB Support for CA Spool Java Transformers](#) (see page 7)

[CA DRAS and CA Spool Java Transformers](#) (see page 8)

[DD Command – Display DESTID](#) (see page 8)

[DESTVAL=DYNAPDIP - DEST='IP:ipaddr' APD Support](#) (see page 8)

[Email with Multiple Attachments](#) (see page 9)

[Increased X2YYDEF MAXTASK to 20](#) (see page 9)

[Java Transformer Resource Cache Flushing](#) (see page 9)

[TCP/IP Source Port Range](#) (see page 9)

[Java Transformers Support Any-to-Any Data Stream Conversion](#) (see page 10)

[Java Transformers Can Run Remotely](#) (see page 12)

AFP to PCL Soft Font Support for the CA Spool Java Transformers

Previously, the fonts used when printing files that have been transformed from AFP to PCL using the CA Spool Java Transformers consisted of two possibilities. In most cases, the mainframe font was correlated to a font that was resident on the target printer. This can result in a loss of fidelity with the original version of the printed output. Alternatively, a bitmap or rasterized version of every character within the input file was included from the mainframe font in the output file. This can result in large output PCL files.

The AFP to PCL Transformer includes support for building PCL soft fonts from 300 pel AFP fonts and including them as part of the output PCL file. Only font characters which are used are included in the output file. The resulting file retains fidelity to the original file that correlating to printer resident fonts may not. At the same time, only the smallest amount of data possible to retain that fidelity is sent to the printer.

AFP USERLIB Support for CA Spool Java Transformers

Support for USERLIB data sets on the JCL OUTPUT statement or DESTID DUSERLIBn/FUSERLIBn parameters for AFP input files has been added to the CA Spool Java transformers.

Note: This note applies only to remote Java transformers. All USERLIB data set members are copied to a temporary /input subdirectory. Therefore, we recommend that you use small USERLIB data sets that contain only the resource members being used.

CA DRAS and CA Spool Java Transformers

The current CA Output Management Web Viewer (CA OM Web Viewer) AFP-to-PDF transformers support is handled by CA DRAS and CA View. It is limited to ACIF processed AFP reports.

But many clients have non-ACIF AFP reports stored in CA View which they want to view as PDF using Adobe Reader through CA Output Management Web Viewer.

Some clients have Xerox Metacode reports stored in CA View which they are no longer able to view after upgrade to CA OM Web Viewer Version 12.0.

Other clients want to view their text reports as PDF using Adobe Reader through CA OM Web Viewer.

The new CA DRAS and CA Spool Java Transformer interface automatically transforms IBM AFP, Xerox Metacode, and text reports stored in a CA View database to Adobe PDF (Portable Document Format) files during loading.

This allows CA View clients to view their AFP, Metacode, and text reports as PDF files through CA OM Web Viewer.

DD Command – Display DESTID

The new DD command displays the DESTID settings according to your selection criteria. To specify this criteria, you use optional operands, including file sequential number, user ID, destination, class, and filename.

DESTVAL=DYNAPDIP - DEST='IP:ipaddr' APD Support

Added support for DESTVAL=DYNAPDIP initialization parameter to activate special DEST='IP:ipaddr' APD - Automatic Printer Definition support for DEST='IP:ipaddr' printers.

When an output with DEST='IP:ipaddr' is received, a corresponding APD printer is automatically defined (if it is not already defined).

To assign default printer attributes to DYNAPDIP-added printers, define a DEFNODE with APDNODE=#*.

A DYNAPDIP-added printer is automatically deleted when no more files are queued to the printer.

REINIT does not delete DYNAPDIP added printers. REINIT of DYNAPDIP added printers are supported.

Email with Multiple Attachments

The new SMTP driver parameter, MAILCOMB=FILENAME/GROUPID/USERID, sends one email with email attachments for all queued files that have the same FILENAME, GROUPID, or file creator's USERID and have the same TO=, CC= and BCC= email parameters.

If XEQGRPID=JOBID and MAILCOMB=GROUPID are specified (same TO=, CC= and BCC= is the additional condition), all the files generated by a given batch job are sent in one email (as multiple attachments).

Increased X2YYDEF MAXTASK to 20

Increased the maximum number of concurrent transformations for the X2YYDEF MAXTASK parameter from 10 to 20. The X2YYDEF MAXTASK parameter defines the maximum number of concurrent transformations for an FSS.

Java Transformer Resource Cache Flushing

Added support for Java Transformer Resource Cache flushing to REINIT processing. The REINIT command, without any parameters, informs the attached Java Transformer FSS tasks to empty their resource caches.

The REINIT,FSS[,fssname|*ALL] command refreshes the resource cache for a specific FSS task or all FSS tasks, without performing any other REINIT processing.

TCP/IP Source Port Range

Extended existing support to specify certain port ranges reserved for printing. Use the LPORT parameter, specified by the printer's DRIVPRM1-4 parameters, as follows:

```
DEFNODE LPR, TCP-LPR, DRIVPRM1= 'LPORT=(1300-1349,1600-1699,721-731)',  
        TCPDRIVE=LPR, CLASS=ALL, ACQUIRE=WORK, RELEASE=NOWORK  
NODE HP6L, LPR, GROUP=3
```

Java Transformers Support Any-to-Any Data Stream Conversion

The CA Spool Java transformers now support any-to-any data stream conversion. This support enables automatic conversion of documents from the following original formats to the following new formats:

- Original: AFP, Metacode/DJDE/LCDS, PCL, TIFF, and PDF
- New: AFP, Metacode/DJDE, PCL, PostScript, TIFF, Images, PDF, PDF/A, and HTML/CSS

This support is provided through integration with Actuate Xenos d2e Vision. That product is written completely in Java, which enables the transformation process to use zAAP processors.

CA Spool includes the following new parsers, generators, IVP jobs, and LMP codes to support the any-to-any data stream conversion:

- Parsers
 - PCL – Parses HP PCL print-streams including PCL 5 and PCL 6 (PCL XL)
 - PDF – Parses input Adobe PDF 1.0 to 1.6 files (Acrobat 7.0 or earlier)
 - TIFF – Parses industry-standard multi-page TIFF Class B, G, P, and R formats
Also parses 1, 2, 16, 256, RGB and CMYK color depths
Supports CCITT Group4 and Group3 compression
- Generators:
 - AFP – Generates AFP MO:DCA-P output
 - Image – Generates single page color image output files
Supports PNG, TIFF, and JPEG
 - Metacode – Generates Metacode/DJDE (Dynamic Job Descriptor Entry) output
 - PDF/A – Generates Adobe PDF output that is compliant with the PDF/A-1b (ISO 19005-1:2005) standard
 - TIFF – Generates single or TIFF Class B output files
Supports CCITT Group4 compression and any resolution (dpi)
 - Web – Generates HTML output with CSS

- IVP jobs in the CEOGEN library:
 - A2PDIVPJ – Transforms AFP files into PDF
 - C2PDIVPJ – Transforms PCL files into PDF
 - I2PDIVPJ – Transforms TIFF files into PDF
 - M2PDIVPJ – Transforms Metacode files into PDF
 - P2PDIVPJ – Transforms PDF files into PDF
- LMP codes:
 - 3B (CA Spool Option for AFP Bundle Transformers)
 - 3C (CA Spool Option for Metacode Bundle Transformers)
 - 3E (CA Spool Option for PCL Bundle Transformers)
 - 3F (CA Spool Option for TIFF Bundle Transformers)
 - 3G (CA Spool Option for PDF Bundle Transformers)
- The following options for printer node transformer parameter TRANSFRM has been added:
 - TRANSFRM=A2AF— AFP to AFP Transformation
 - TRANSFRM=A2IM— AFP to Image Transformation
 - TRANSFRM=A2ME— AFP to Metacode Transformation
 - TRANSFRM=A2PA— AFP to PDF/A Transformation
 - TRANSFRM=A2TI— AFP to TIFF Transformation
 - TRANSFRM=A2HT— AFP to Web Transformation
 - TRANSFRM=M2AF— Metacode to AFP Transformation
 - TRANSFRM=M2IM— Metacode to Image Transformation
 - TRANSFRM=M2ME— Metacode to Metacode Transformation
 - TRANSFRM=M2PA— Metacode to PDF/A Transformation
 - TRANSFRM=M2TI— Metacode to TIFF Transformation
 - TRANSFRM=M2HT— Metacode to Web Transformation
 - TRANSFRM=P2AF— PDF to AFP Transformation
 - TRANSFRM=P2IM— PDF to Image Transformation
 - TRANSFRM=P2ME— PDF to Metacode Transformation
 - TRANSFRM=P2PC— PDF to PCL Transformation
 - TRANSFRM=P2PS— PDF to PostScript Transformation

- TRANSFRM=P2PD— PDF to PDF Transformation
- TRANSFRM=P2PA— PDF to PDF/A Transformation
- TRANSFRM=P2TI— PDF to TIFF Transformation
- TRANSFRM=P2HT— PDF to Web Transformation
- TRANSFRM=C2AF— PCL to AFP Transformation
- TRANSFRM=C2IM— PCL to Image Transformation
- TRANSFRM=C2ME— PCL FP to Metacode Transformation
- TRANSFRM=C2PC— PCL to PCL Transformation
- TRANSFRM=C2PS— PCL to PostScript Transformation
- TRANSFRM=C2PD— PCL to PDF Transformation
- TRANSFRM=C2PA— PCL to PDF/A Transformation
- TRANSFRM=C2TI— PCL to TIFF Transformation
- TRANSFRM=C2HT— PCL to Web Transformation
- TRANSFRM=I2AF— TIFF to AFP Transformation
- TRANSFRM=I2IM— TIFF to Image Transformation
- TRANSFRM=I2ME— TIFF to Metacode Transformation
- TRANSFRM=I2PC— TIFF to PCL Transformation
- TRANSFRM=I2PS— TIFF to PostScript Transformation
- TRANSFRM=I2PD— TIFF to PDF Transformation
- TRANSFRM=I2PA— TIFF to PDF/A Transformation
- TRANSFRM=I2TI— TIFF to TIFF Transformation
- TRANSFRM=I2HT— TIFF to Web Transformation

Java Transformers Can Run Remotely

The CA Spool Java transformers can run on a remote system, for example, z/Linux.

The Java transformers running remotely provide the same functions as the Java transformers running on z/OS, except USERLIB support.

For details about installing and configuring the Java transformers to run remotely, see the *Transformers Installation Guide*.

Chapter 2: Enhancements to Existing Features

This section contains the following topics:

[Post-GA Enhancements](#) (see page 13)

[NJE Interface TCP/IP Support](#) (see page 14)

[New I Option for the Batch Transformer Utility](#) (see page 14)

[Text to PDF Wrapper](#) (see page 15)

[Commands](#) (see page 15)

[FTP Print Driver FTPS Support](#) (see page 16)

[Environment](#) (see page 16)

[External Security and Password Phrases](#) (see page 17)

Post-GA Enhancements

At publication time (July, 2015), CA Spool 12.0 has added enhancements in the following areas since the product was released for GA:

- Web Interface support on z/OS 2.2
- New DEFTOUSR parameter
- Updated documentation

Web Interface Support on z/OS 2.2

You can install and configure the CA Spool Web Interface on z/OS 2.2, using the Apache HTTP server. For details, see the new section *Install the Web Interface on z/OS 2.2*, in the *Customization Guide*. For a new sample web server PROC for this interface, see [PTF RO83091](#) on [CA Support Online](#).

New DEFTOUSR Parameter

The new DEFTOUSR parameter specifies the action to perform when an emailed file has no TO= value defined: hold the email or send it to the userid that created the email. For details, see the updated section *Email Parameters*, under *TCP/IP PrintDirect*, *Email Print Driver*, in the *Customization Guide*. To implement support for DEFTOUSR, see [PTF RO82670](#) on [CA Support Online](#).

Updated Documentation

In addition to the new sections mentioned earlier, the remaining new sections follow:

- Configure Web Interface to Let Users Convert Text Files to HTML, PDF, or RTF, in the *Customization Guide*
- Configure Web Interface to Let Users Convert AFP Files to PDF, in the *Java Transformers Administration Guide*
- Configure Web Interface to Let Users Convert AFP Files to PDF, in the *AFP Transformers Administration Guide*
- Enhanced MAS Support, under Configuration Best Practices, in the *Best Practices Guide*

NJE Interface TCP/IP Support

The NJE interface is enhanced to support Transmission Control Protocol/Internet Protocol (TCP/IP). Previously, the NJE Interface was limited to SNA only.

The new NJESERV initialization parameter statement lets you define the NJE TCP/IP server to CA Spool.

The updated NJE initialization parameter statement lets you define remote NJE TCP/IP nodes.

NJE TCP/IP support lets you use SSL and TLS to encrypt the data that is transmitted through Application Transparent-Transport Layer Security (AT-TLS).

Important! In a production environment, before you implement NJE TCP/IP support, apply IBM APAR OA45891.

New I Option for the Batch Transformer Utility

The Batch Transformer utility is enhanced with the new I option for A2PD transformations.

When you use the indexer component in the d2eprofile to break output PDF files into multiple files, add the I option to write each file as a member of a PDS output file.

For more details about the I option, see the Batch Transformer utility section in the *Java Transformers Administration Guide*.

Text to PDF Wrapper

The text to PDF wrapper is enhanced to handle more pages. Previously, the limit was 32,760 pages. The new limit is 262,141 pages.

Commands

The following commands are enhanced:

- [C Command – Cancel NJE Session Activity](#) (see page 15)
- [Display Node Command](#) (see page 15)
- [REINIT,PRT Command - Reinitialize Printers](#) (see page 15)

C Command – Cancel NJE Session Activity

For NJE session activity, the CA Spool Cancel command is updated to align more closely with the JES2 \$C command, as follows: If either command is issued when a partner node is sending files to CA Spool, the files are no longer held by the sender. Instead, they are purged.

Display Node Command

The Display Node command (D,nodename) response is enhanced to indicate the TRANSFRM and DRIVPRM1-4 printer node parameter options in message ESF831.

REINIT,PRT Command - Reinitialize Printers

Use the REINIT,PRT command to change the specified attributes of one or more printers without reinitializing all of the CA Spool parameters that the REINIT - Reinitialize ESF - command processes. You can change the attributes of a single printer, a group of printers, or all printers.

For details, see the *Operations and Commands Guide*.

FTP Print Driver FTPS Support

You can now configure CA Spool for secure FTP transfers using SSL/TLS encryption. The FTP print driver can now use the new FTPDATA keyword to process custom FTP.DATA data sets.

Note: For a sample scenario to implement FTPS support, see the *Customization Guide*.

Environment

This section discusses the current operating systems supported, scalability, and the security interfaces.

Supported Operating Systems

z/OS 1.12 or higher.

Scalability, Availability, and Prior Versions

CA Spool Version 12.0 has the same scalability as the previous versions.

Availability is 24x7, except for periodic maintenance which can vary in frequency for each customer.

Backward Compatibility

CA Spool Version 12.0 can read prior version report data found on disk and tape.

Security and Privileges

External security interface is provided to CA Top Secret, CA ACF2, and IBM RACF.

External Security and Password Phrases

Administrators can use an external security product (CA ACF2, CA Top Secret, or RACF) to authorize login and secure data to CA Spool. This release of CA Spool enhances external security by adding support for password phrases (passphrases). Password phrases can be up to 100 characters. When administrators enable password phrases, users can log in to CA Spool using either a password or password phrase.

Important! CA ACF2 R15 (Z/OS) sites must apply APAR RO38461 to implement password phrases. CA ACF2 R14 (Z/OS) must apply APAR RO22977.

For details, see the *Customization Guide*. This guide now includes instructions for setting up CA Spool to use external security.

Chapter 3: Installation

For installation of CA Spool Version 12.0, see the *Installation Guide*.

This section contains the following topics:

[Installation Procedure](#) (see page 19)

[Updates for Pax Files and FMIDs](#) (see page 20)

[ESFU012X Updates](#) (see page 20)

Installation Procedure

To install CA Spool Version 12.0, do the following as documented in the *Installation Guide*:

1. Prepare for the installation by confirming that your site meets all installation requirements.
2. Acquire the product using one of the following methods:
 - CA CSM
Note: If you do not have CA CSM, you can download it from the Download Center at CA Support Online. Follow the installation instructions in the *CA Chorus Software Manager User Guide*, available on the Documentation page of <https://support.ca.com/>.
 - PAX-Enhanced ESD
 - DVD
3. Install your product based on your acquisition method.
4. Apply maintenance, if applicable.
5. Configure the minimum settings to start your product.
6. Start your product.

Updates for Pax Files and FMIDs

In this release, the Transformer Interfaces (both C and Java versions) have been removed from the base product Pax file and have been moved to their own Pax file. This release supplies two Pax files:

- The base product Pax file
- The Transformer Interfaces Pax file

The base product Pax file consists of the following required FMIDs:

- CBQ4C00: CA Spool base product
- CCSRC00: LPD component
- ASARB75: SAS/C Runtime Loadlib

The Transformer Interfaces Pax file consists of the following required FMIDs:

- CEOCC00: Java Transformers Engine and Configuration parameters (USS)
- CFD2C00: C Transformers Interface and Configuration parameters
- CFD3C00: Java Transformers Interface, Configuration parameters (z/OS), and the Batch Transformer utility

The PAX file changes may require that you add additional load libraries to the STEPLIB concatenation in the following entities:

- The CA Spool procedure
- The Java Transformers FSS
- Any job step that uses the Batch Transformer utility

ESFU012X Updates

ESFU012X is no longer statically linked into any CA Spool load module. This standalone version of ESFU012X continues to call any user-written exit that is specified in the UEX012 parameter of the LOADEXIT statement.

The length of the work area that is passed to ESFU012X has been changed from a variable length to a fixed length of 4K.

Chapter 4: Configuration

This section provides information about the new options related to configuration.

This section contains the following topics:

[IPSec](#) (see page 21)

IPSec

You can optionally use Internet Protocol Security (IPSec) to encrypt data that is sent between CA Spool and printers that support IPSec. IPSec is a standard suite of protocols by Internet Engineering Task Force (IETF) that provides data authentication, integrity, and confidentiality as data is transferred between communication points across IP networks. No changes are required to CA Spool to enable IPSec.

Note: For details, see the *Customization Guide*.

Chapter 5: Documentation

This section contains topics that are related to documentation enhancements.

Technical Information Content Philosophy

The documentation set focus on the following key areas:

- Role-based scenarios that detail steps to complete key business processes. These scenarios can appear in traditional guides and as standalone Knowledge Database articles on <http://ca.com/support>.
- An end-to-end view that gives you access to content across the full lifecycle of your product, including content from technical information, product management, support, sales, services, and education. The bookshelf that is based on the end-to-end model provides you with traditional guides and links to various information sources that are related to your product.
- Concise product content that promotes usability and accessibility.

Installation Guide

The Installation Guide has been restructured and describes the following methods of installing your product:

- CA CSM
- Pax-Enhanced Electronic Software Delivery (Pax ESD)
- DVD

Enhancements Added Since Release 11.7

The following updates were published as Product Documentation Changes (PDCs) after the last publication of CA Spool Release 11.7 bookshelf. These updates are included in this version of the documentation.

AFP Transformers Administration Guide

- RI37905
- RI38571
- RI38577
- RI42565
- RI44798
- RI46497
- RI52106
- RI63201

Customization Guide

- RI35532
- RI35533
- RI35610
- RI35956
- RI37906
- RI37907
- RI42670
- RI43382
- RI46068
- RI50407
- RI53417
- RI53493
- RI54057
- RI54070
- RI59516
- RI66032

Installation Guide

- RI38305

Operations, Commands, and Messages Guide

- RI35532
- RI35610
- RI41014

Chapter 6: Parameter and Setting Changes

This section contains the following topics:

[NODE](#) (see page 25)

NODE

The following enhancements have been added:

- TRANSFRM parameter options:

s

Specifies that AFP to PCL Soft Font support is used for this node.

r

Writes a detailed Transformer report as a CA Spool file.

w

The w option is required for nodes that drive the transformation of files for the Batch Transformer Utility.

v

Adds trace entries related to AFP to PCL Soft Font processing to the D2ETRACE sysout file. V can be used without specifying any D2E_TRACE environment variable.

- TCPDRIV parameter option:

n

Specifies not to send the LPR control file as part of the LPR print session. The target node is responsible for routing the file to the correct print queue.

Chapter 7: Discontinued Features

This section contains the following topics:

[Withdrawal of Retired CA Spool Interfaces](#) (see page 27)

Withdrawal of Retired CA Spool Interfaces

Support for the following retired CA Spool interfaces has been discontinued:

- PC Download support
- CMA Connection interface
- SASWTR replacement interface
- PSO (Process Sysout) interface
- VM/CMS menu interface
- Support under SDSF
- Natural Release 2.3.x, V3.1.x, and V4.x
- Sample program CICSCSF for Advanced Communication Interface (ESFCOMI)

Appendix A: Known Issues

Published Fixes for Version 12.0

All published fixes are available at Published Solutions on <http://ca.com/support>.