

PRODUCT SHEET:
CA Spool

CA Spool™ r11.6



CA Spool is a z/OS based solution that securely manages your business-critical print and report delivery requirements across networks, platforms, and locations. It offers powerful facilities for exchanging data between programs and platforms and spooling, printing, emailing, and transferring files in a multiplatform business environment. CA Spool provides nonstop operation, collects reports from multiple sources (including VSE, VM, OS/400, NetWare, Windows, Linux, and UNIX), and offers enterprise-wide spooling and print capabilities.

Business value

CA Spool provides you with the necessary facilities to manage all remote printing in a z/OS environment, creating an enterprise-wide, single-image printing and report distribution function. Operating as a self-contained subsystem, it houses multiple report input interfaces, a centralized spooling system, a variety of output interfaces, enhanced printer support, and advanced user control. CA Spool enhances your current spool environment, providing a central point of control over day-to-day print management issues and securing the distribution of important data.

Product overview

Managing print and report distribution workloads within today's business infrastructure has become increasingly complex. The production of printed reports has moved from centralized print facilities to a network of locally managed printers within reach of the user community. Since reports are now emailed directly to recipients, organizations require support for both local and remote printing to ensure enterprise-wide access to integrated, business-critical reports.

Delivery approach

CA Services provides a portfolio of mainframe services delivered by CA Technologies internal staff and a network of established partners chosen to help you achieve a successful deployment and get the desired business results as quickly as possible. Our standard service offerings are designed to speed deployment and accelerate the learning curve for your staff. CA Technologies equips customers with field-proven mainframe best practices and training that lower risk improve use/adoption, and ultimately align the product configuration to your business requirements.

Features

Mainframe 2.0

CA Spool has adopted key Mainframe 2.0 features designed to simplify your use of CA Spool and enable your staff to install, configure, and maintain it more effectively and quickly.

CA Mainframe Software Manager: The CA Mainframe Software Manager automates CA Spool installation and maintenance and removes SMP/E complexities.

- The Software Acquisition Service enables you to easily move product installation packages and maintenance from CA Support Online directly to your mainframe environment and prepare them for installation.
- The Software Installation Service standardizes CA Spool installation, which includes a new, streamlined Electronic Software Delivery (ESD) method that allows you to install CA Spool using standard utilities. This service also provides standardized SMP/E product installation and maintenance using APARs and PTFs, and simplifies SMP/E processing with an intuitive graphical user interface and an intelligent Installation Wizard.
- The Software Deployment Service enables you to easily deploy CA Spool in your mainframe environment.
- CA MSM Consolidated Software Inventory (CSI) updates and infrastructure improvements add flexibility to CA MSM processing of CSIs and enable CA MSM to more effectively utilize CPU and system memory.

Installation Verification Program (IVP) and Execution Verification Program (EVP): As part of the qualification process for inclusion in the set of CA mainframe products released every May, CA Spool has passed stringent tests—performed through the IVP and EVP—to find and resolve interoperability problems prior to release. These programs are an extension of CA's ongoing interoperability certification initiative launched in May 2009.

Best Practices Guide: This guide provides information on CA Spool installation, initial configuration, and deployment to shorten the learning curve for staff responsible for the installation and management of this product.

Health Checker: The Mainframe 2.0 Health Checker provides CA Spool Health Checks that execute under the IBM Health Checker for z/OS. The CA Spool Health Checker is a valuable tool that identifies potential problems before they impact your environment by:

- Checking spool data set utilization
- Checking file queue utilization
- Checking for checkpoint lockouts
- Checking the concurrent number of transformer subtasks
- Checking the concurrent number of TCP/IP printer subtasks
- Checking to ensure that encryption hardware is available for report encryption

What's New in CA Spool R11.6

Report Data Encryption for PCI (Payment Card Industry) Compliance and Privacy Protection:

Protecting your data is of utmost importance. Customers who store credit card data must abide by PCI compliance. One of the most important factors in PCI compliance is providing optimum security—data at rest must be encrypted via strong encryption. CA Spool contains a new feature called PCI Level Strong Encryption. This new PCI compliance mandates that any data containing personal information is encrypted using strong algorithms such as AES (advanced Encryption Standard); we are integrating with the IBM CPACF and ICSF services for encryption.

Other Key Features

User Management: From a single point of control, your administrators, operations staff, and users can view, control, and manage the printing, emailing, and distribution of reports and documents at assigned destinations. CA Spool provides a comprehensive menu system that is accessible from a variety of systems and applications, including a new web-based interface. The menu system provides local users and administrators secured access to their printer queues and documents. An SAF compliant security interface provides the ability to control which documents are printed where, and which users have the ability to view and print specific reports. An additional feature allows printers to be grouped so that if one printer is in use or unavailable documents can be directed to print on an optional printer within the same group.

- **Web Interface:** A web-based Print Management Interface that offers the same familiar functions and facilities to corporate Intranet users as the 3270 CA Spool Menu System.
- **View Text Files as PDF, RTF or HTML:** When a user clicks on the name field of a text file, the file is automatically formatted and converted into Linearized PDF, HTML, or RTF for viewing. The CA Spool administrator defines the default text viewing format as 3270 format, PDF, RTF or HTML, and the users can overwrite this through the Web Interface Options panel.

Report Input Interfaces: CA Spool offers a variety of report input interfaces that can be used to collect your print documents across the enterprise, from JES System Interfaces to business applications and open system interfaces. The list below highlights just a few of the many report input interfaces that CA Spool provides:

- **CALL Interface:** By coding the CALL instruction into business applications, application developers can support opens, writes, reads, closes, purges, routing, and re-queues in order to retrieve status information about CA Spool files.
- **SUBSYS Interface:** Similar to the JES SYSOUT and SYSIN functions, the SUBSYS Interface allows applications to use CA Spool facilities without any modifications.
- **SYSOUT Application Program Interface (SAPI):** SAPI support obtains all OUTPUT statement parameters for a SYSOUT data set and prevents unwanted SYSOUT data sets from being selected—enhancing performance and helping minimize JES2/JES3 overhead.
- **Virtual Printer Interface:** This feature collects data sent by a TP monitor, such as CICS or IMS, to a VTAM-defined printer and stores the collected data as a CA Spool file. Through this interface, CA Spool assumes the responsibility of physically printing from other TP monitors without changing the application programs or modifying the TP monitor itself. The Virtual Printer Interface supports multiple sessions per virtual printer.
- **NJE Interface:** The NJE protocol is considered the de facto standard for communication between dissimilar job networking products. Multiple output files and jobs are sent and received at the same time, while file processing options and attributes are preserved. Header and data information is logged in case debugging is needed. One CA Spool system may have numerous connections to other NJE nodes.
- **NATURAL Interface:** Without having to change a statement in NATURAL batch or online (CICS, IMS, TSO and COMPLETE), reports are placed under CA Spool control. Standard NATURAL DISPLAY/WRITE statements are supported. Users employ the NATURAL Menu System to control the print environment.
- **LPD Interface:** The LPD interface provides a powerful solution that can transport any document type from any enterprise platform directly into the JES spool, CA Spool, or other CA Mainframe Enterprise Report Management solution. The originating system's Line Print Requester (LPR) attributes are maintained, allowing reports to be easily identified for report splitting, bundling, printing, archiving, and viewing. This interface automatically recognizes ASCII, Text, AFP, PCL, PostScript, PDF, and Binary print data streams, providing optional translation with full codepage support, or allowing them to be stored in their original format. U.S. Federal Standard AES print data decryption with 16, 24, or 32 byte persistent encryption keys is also supported.

Print, Email and Report Processing Features: CA Spool provides uniform support for VTAM, PSF, and TCP/IP-attached printers, allowing a central point of control for all of your print processing needs.

- **Enhanced TCP/IP PrintDirect:** The TCP/IP PrintDirect interface provides automatic formatting of text print files and PDL-based, bi-directional communication with printers. This allows for reliable check pointing and printer intervention support.
- **Print Data Encryption:** This feature uses the new U.S. Federal Standard AES to send strongly encrypted print data over a public or private TCP/IP network to the printer. Print data encryption currently supports Capella's SecureDIMM card on selected HP printer models.

- **Advanced Laser Printer Interface:** This interface supports printing of IBM 3800-1 generated DCF files by HP-LaserJet printers and Xerox 4045 laser printers.
- **PSF Interface:** The PSF Interface supports printing of both line and AFP files on IPDS printers through PSF/MVS, HP-LaserJet printers through MPI Tech's PSS, and Xerox printers through Xerox's XPAF.
- **Xerox DocuSP LCDS Print Driver:** This Line Conditional Data Stream (LCDS) print driver supports the special LPR/LPD protocol required to allow CA Spool to route LCDS print files to Xerox DocuSP family printers over the TCP/IP network.
- **BARR Print Driver:** The BARR print driver routes print files in the "Mainframe IP Record Format" to BARR printers over the TCP/IP network using the LPR/LPD protocol.
- **AFP Transformers:** The AFP Transformers enable automatic data transformation from IBM Advanced Function Printing/Presentation (AFP) print files into HP's Printer Control Language (PCL) print files to Adobe Portable Document Format (PDF) print files and Adobe PostScript print files.
- **Text to PDF/HTML/RTF Wrappers:** This feature provides automatic formatting and conversion of text files to PDF, HTML, and RTF files while they are being viewed, emailed, or distributed.
- **Email Print Driver:** This feature enables automatic emailing of CA Spool files as email attachments or email WebLink URLs to the file. When the WebLink is clicked, the file will automatically be viewed through the CA Spool Web Interface. AFP to PDF transformer and text wrappers are supported during emailing.
- **Data Set Print Driver:** This feature supports automatic copying of CA Spool print files into MVS data sets and USS HFS files for further processing.
- **SAR Print Driver:** This feature supports automatic copying of CA Spool files into CA View report databases.
- **JES Print Driver:** This feature supports automatic copying of CA Spool files into JES, CA Dispatch™, CA Deliver™, or CA Bundl®—similar to the LPD Interface.
- **CA XCOM Print Driver:** This feature supports automatic sending of all types of CA Spool print files, including PDF/HTML/RTF wrapped text files, directly to remote CA XCOM servers running on various platforms for further processing.
- **Connect:Direct Print Driver:** This feature supports automatic sending of all types of CA Spool print files, including PDF/HTML/RTF wrapped text files, to remote Connect:Direct servers running on various platforms using Sterling Commerce's Connect:Direct file transfer product for further processing.
- **FTP Print Driver:** This feature supports automatic sending of all types of CA Spool print files, including PDF/HTML/RTF wrapped text files, directly to remote FTP servers running on various platforms for further processing.

Systems and Operational Features: CA Spool can be customized to your unique environment. Below are some of the features that allow your systems and operations teams to optimize the features of CA Spool to fit your specific print processing needs.

- **SAF Security:** The SAF based security system makes it possible to control access to the various resources—files, printers, and commands—in CA Spool.
 - **Dynamic Change of Network Configuration:** Printers and terminals can be added or deleted, and device and print attributes can be changed while CA Spool is running.
 - **Shared Printer Devices:** This feature acquires and releases printer nodes automatically and allows printers to be shared with other applications without manual intervention.
 - **Multi-access Spool (MAS):** This feature allows up to 32 CA Spool systems (on the same CPU or different CPUs) to share the same set of spool data sets. MAS also allows all CA Spool facilities to be used on all MVS systems running CA Spool, providing a single-image view of all the CA Spool systems in the complex.
 - **Enhanced Parallel Sysplex:** Support CA Spool fully supports and exploits Parallel Sysplex configurations to improve availability and scalability through single system image, single point of control, and common administration.
 - **Large Format Spool Data Sets Support:** To allow spool datasets with up to 1,048,575 tracks (54.7 Gbytes), DSNTYPE=LARGE spool dataset support has been added. IPv6 Support: With government agencies and businesses working to implement the new Internet Protocol version 6 (IPv6), CA Spool IPv6 support has been added.
 - **Online Metric Reporting:** To help identify over- and under-loaded printers, real-time online metrics are maintained per printer. This includes current and maximum queue lengths, files, records, and pages printed in current hour; maximum hour; and total hour since the last CA Spool restart. The CA Spool Menu System and Web Interface Printer panels display the online metrics per printer.
- Routing of Spool Files Between JES and CA Spool:** This feature reroutes JES2 or JES3 spool files that are created by existing JCL statements to the user's printer when the job is terminated. CA Spool files may be sent to the primary spooling system if required by the spool file owner.
- **CA View® Output Archival and Viewing Interface:** This feature interfaces to CA View (formerly SAR) so files can be automatically transferred to CA View for backup, archival, or processing.
 - **Retained Spool Files:** After processing, unlike JES, CA Spool retains processed spool files for a configurable time interval before they are automatically purged.
 - **Automatic Printer Definition:** This feature automatically defines printers in CA Spool as print files are generated for them.
- Enterprise Report Management Integration:** CA Spool integrates with CA's Enterprise Report Management tools—such as CA View, CA Deliver, CA Dispatch—to form a comprehensive solution that automates the flow of reports from the mainframe to anywhere in the enterprise.

Benefits

CA Spool provides you with the facilities necessary to manage all remote printing in a z/OS environment, creating an enterprise-wide, single-image printing function. Operating as a self-contained subsystem, it houses multiple report input interfaces, a centralized spooling system, a variety of output interfaces, enhanced printer support, and end-user control.

CA Spool enhances your current spool environment, providing a central point of control over day-to-day print management issues and securing the distribution of important data.

- The single, integrated point of role-based control offers:
 - Unified management of IT operations
 - Simplified access to end-content consumers
 - Discrete cost control over hard-copy generation
 - Pooled print resources for production failover capability
- Highly-granular security that enables:
 - Rule-based definitions for distribution of content to printer
 - Identity and access controls for specific pieces, or groups, of content
 - Granular access controls for specific content pages
 - End-content consumer operation limits, such as view and print

Why CA Technologies

CA Technologies is an IT management software and solutions company with expertise across all IT environments—from mainframe and physical to virtual and cloud. CA Technologies manages and secures IT environments and enables customers to deliver more flexible IT services. Our innovative products and services provide the insight and control essential for IT organizations to power business agility. The majority of the Global Fortune 500 rely on CA Technologies to manage their evolving IT ecosystems. For additional information, visit CA Technologies at ca.com.

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