CA Output Management

What's new, What's cool and What's next

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31/05/2018 – 4.16

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Agenda

1. CA DELIVER DISCUSSION
2. CA VIEW DISCUSSION
3. CA VIEW/ DELIVER RELEASE 14.0 DISCUSSION
4. CA WEB VIEWER
5. CA SPOOL DISCUSSION

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Product Overview

Business Problems Addressed

- Enterprise report data management, formatting and distributing challenges
- High Printing costs
- Managing multi-year off-line document storage for compliance
- High operational costs

Key Capabilities

- Web Viewing of selected business reports without mainframe expertise
- View and/or transform non-mainframe formatted reports such as PDF's
- Reduced paper costs by eliminating unnecessary printing
- Automatically capture, archive and distribute output ensuring the right information is available to be viewed by the right people in the right format

Personas

- Accounting Staff
- Healthcare Staff
- Financial Staff
- Managers All Levels
- State & Federal Staff
- Global Service Providers

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CA Deliver® Release 14

Report Capture and Print Distribution

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CA Deliver – Report Capture and Distribution

What Is It?

- A report distribution product to deliver hardcopy reports to a user via PRINTER, EMAIL or DATASET
- CA Deliver can bundle together different reports into a single print stream
- Capture reports in two modes PRE-Spool or POST-Spool
  - **What is POST Spool** – After the batch job runs, the output from job is sent to JES for report capture
  - **What is PRE-Spool** – Bypass JES- While the batch job is running, all output from job is be captured in real-time and printed and archive directly to CA View

Report Capture and Distribution

- Print Distribution functions
- Report splitting, text/page selection
- Report bundling
- Dynamic report IDs
- Automated and Dynamic hardcopy print
- Parallel Testing (PassThru Feature)
- Email notification (Report was created)

Report Capture Options

- Pre-Spool (Real Time capture while job is running)
- Post Spool (After Job complete, collect from JES or Dataset)
- Capture reports many ways:
  - Dataset (POST Spool Only)
  - Jobname
  - CLASS
  - DEST
  - Step
  - DD name
  - Writer
  - Form

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CA Deliver – Ease of Use Report Capture Setup

CA Deliver can capture reports many ways: CLASS, FORM, WRITER or DD Name

CA Deliver ---------- Reports for Job: **DEMOJOBD** ------ 00001 of 00004
Command ===> Scroll ===> PAGE

Desc ===> **EXAMPLE OF MULTIPLE WAYS TO CAPTURE REPORTS**
Prevrun ===> FLAG/FLAG

Sel	Stepname	Procstep	DDname	Report ID	Type
	CREDIT		**SYSUT2**	CA-WORLD-OM2017	
			F=FORMNAME	CA-SPOOL2017	
			W=WRITER	CA WORLD-2017	
			C=JESCLASS	CA-WORLDCLASS-2017	

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CA View® Release 14

Report Archive and Online Report Viewing

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CA View – Report Archive and Online Viewing

What Is It?

- CA View® is an automated long and short term REPORT archival and retrieval repository system that provides immediate and flexible online viewing of mainframe and distributed output.
- Its repository is capable of housing many types of documents and file types to give you an easy mechanism for selectively viewing and managing a variety of data types.

Report Archive and Online Viewing

- Long term report repository archive (DASD or Tape)
- Indexing of report data
- Secure report access via IBM RACF, CA TSS, CA ACF2
- Re-print functions available for user or print center
- Online Viewing access - 3270 or Web Interface
- Fast Report Archival and Online viewing and Offline Retrieval
- Strong recovery options

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CA View Key Features

Report Indexing and Cross Report Index Linking

- Allows the creation of report indexes based on multiple values located in more than one place on a page
- Creation of report indexes (Up to 8 levels of report indexing) that will reduce the amount of report pages required to find specific data based on values from multiple places within a page
- Link Indexes using index name to search across many reports at once.

Report Writer for CA View® - SARGRW

- Report writer within CA View® for easy extraction of metadata information from the CA View® database
- Ability to extract and report on the CA View® database Metadata, similar to how they can from the CA Deliver™ database, without having to write an assembler program.

CA View® Operations Job Mode

- Improve User Experience when searching and viewing jobs and logs
- Add new Job mode so that a report list shows columns such as start date and time, end date and time, return code , comments
- Improve Print and Email capability so that these components of Spool appear seamless to View users
- Provide additional search criteria such as JobID, Error code, Comment, time periods to limit the initial report list.

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CA View® – NEW Online Job Mode Selection List Fields

The Job Selection List has multiple panels to scroll left and right. The panels may contain the following information:

Jobname - Name of the job
Jobid - JES id of the job
Start Date - Date of job execution
Start Time - Time of job execution
End Date - End date of the job
End Time - End time of the job
Sub Date - Submission date of Job
Sub Time - Submission time of Job

XCODE - Exceptional condition
System - System of execution
Class - Job Class
User Id - User who submitted the job
Lines - Sysout/Report lines archived
Pages - logical pages archived.
Assigned - User assigned to the job.
User-Comments - User comment field

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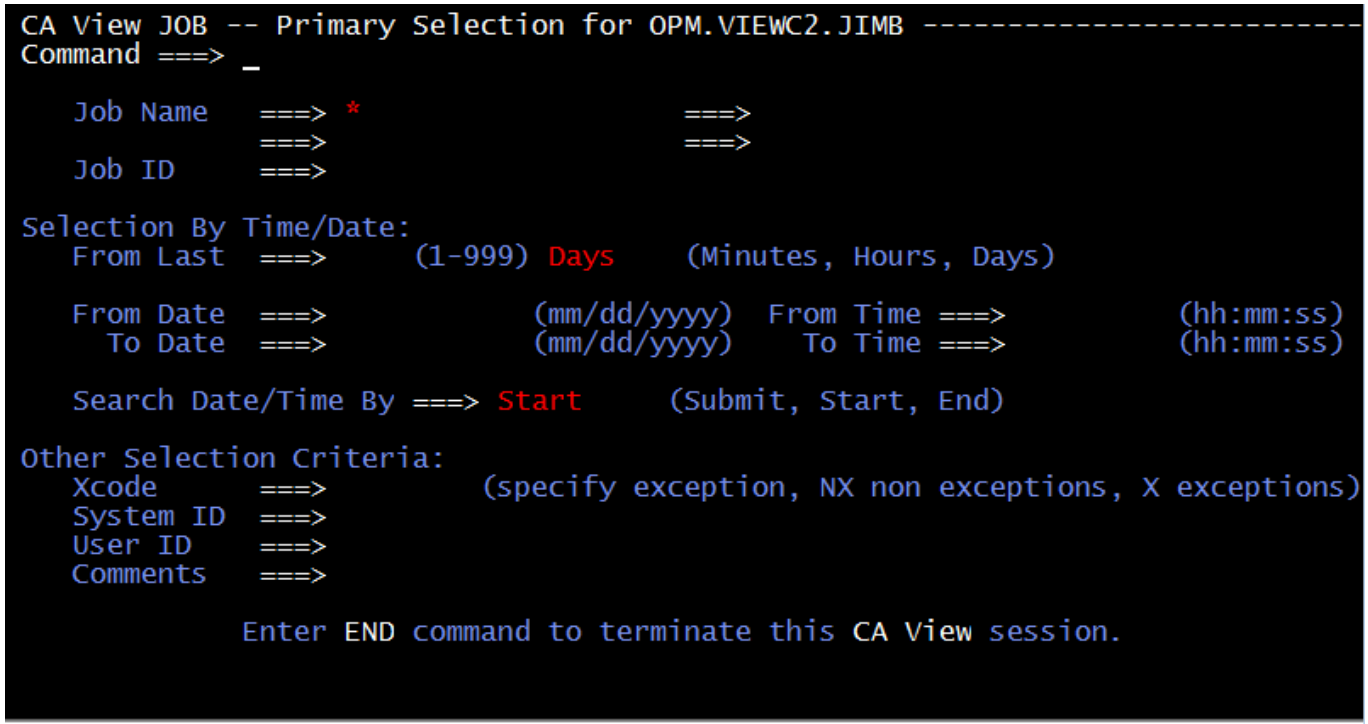
CA View® Job Mode – NEW Online Primary Selection Menu



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CA View® , CA Deliver® Release 14

What has been delivered

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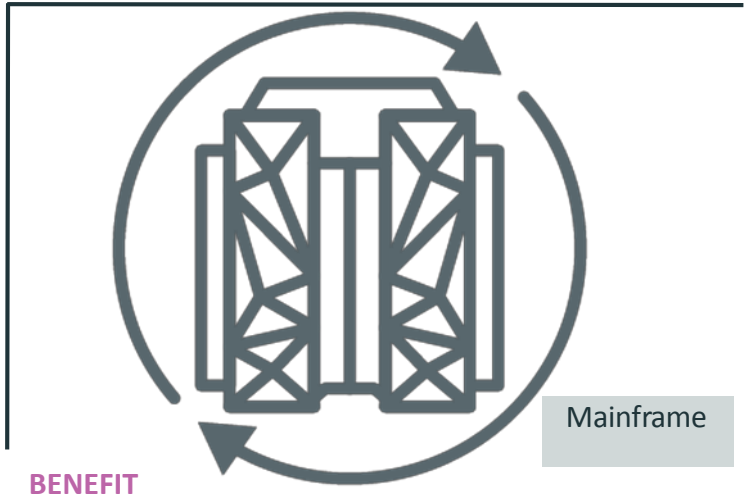
CA View, CA Deliver, CA Web Viewer Packaging Improvements

Single product install tape (All Products and optional components on one install tape)



PAIN

- SYSPROG has to download different CA product solution tapes for installation of the CA solution
  - CA Deliver and its components
  - CA View and its components
  - CA Web Viewer and its components

SOLUTION

- One Mainframe install tape for complete CA Report Management solution
- Use CA license keys to turn on component options or features

BENEFIT

- **Improved User Experience**
  - **Easy to install to target libraries**
  - **Quick and improve deployment or upgrade process**
  - **Improve product/solution management within the environment**

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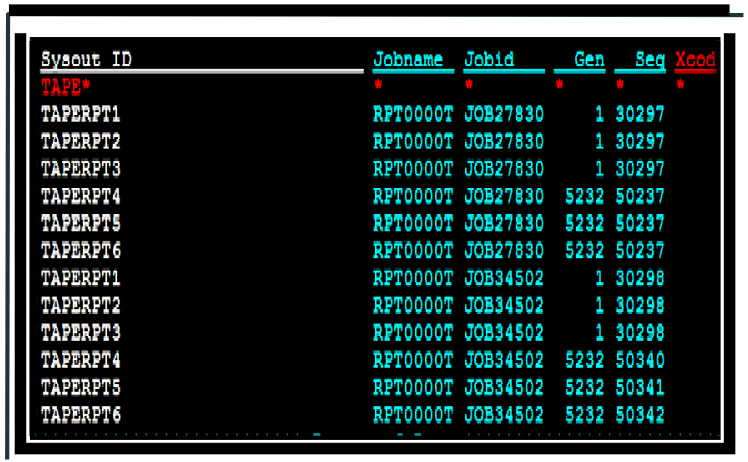
CA View- Operational Data User Experience Improvements

Enhanced search, view, print and email capability for job logs



Sysout ID	Jobname	Jobid	Gen	Seq	Xcod
TAPE*	*	*	*	*	*
TAPERPT1	RPT0000T	JOB27830	1	30297	
TAPERPT2	RPT0000T	JOB27830	1	30297	
TAPERPT3	RPT0000T	JOB27830	1	30297	
TAPERPT4	RPT0000T	JOB27830	5232	50237	
TAPERPT5	RPT0000T	JOB27830	5232	50237	
TAPERPT6	RPT0000T	JOB27830	5232	50237	
TAPERPT1	RPT0000T	JOB34502	1	30298	
TAPERPT2	RPT0000T	JOB34502	1	30298	
TAPERPT3	RPT0000T	JOB34502	1	30298	
TAPERPT4	RPT0000T	JOB34502	5232	50340	
TAPERPT5	RPT0000T	JOB34502	5232	50341	
TAPERPT6	RPT0000T	JOB34502	5232	50342	

PAIN

- Time consuming to find and manage job logs within CA View
  - Can not search for Jobs by Job Names. Must use Report ID or Job ID.
  - Must print each report separately
  - Each DD within a job shown as separate Report.
  - No way to group all DD's for a specific job together
  - JESMSGLG, JESJCL, JESYSMSG not available

SOLUTION

- Search and list by Job name, start or end date and time, Return code, userid
- Select a job and see all DDs for the Job
- Print at Job or DD level.
- Email at Job or DD Level

BENEFIT

- **Improved User Experience**
- **Easy to find the jobs you want to View**
- **Clearer view of the jobs by DD name to speed problem resolution**
- **More Job search capabilities – Multiple job names, Time and Date Range, Condition Code**
- **Print and email without having to understand the complexities of CA Spool**

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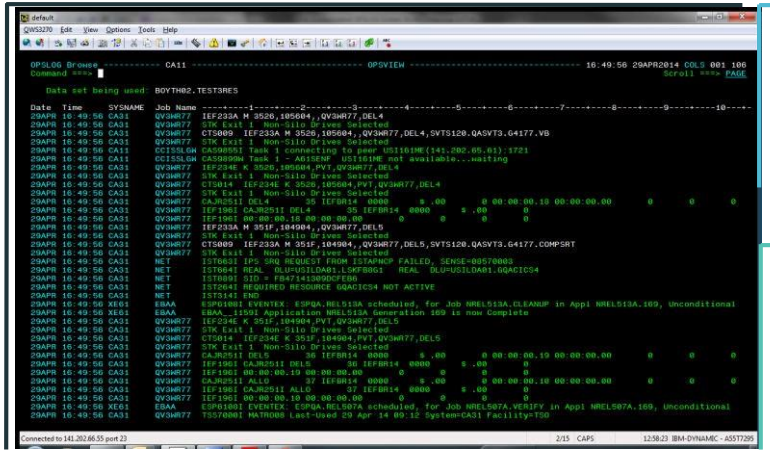
CA View- OPS/MVS Heartbeat and Status Messages

Integration providing status information



PAIN

- Difficult to determine the status of multiple started tasks
- When resources are not in the correct status reports are unavailable

SOLUTION

- Generate OPS/MVS Status Messages for all started tasks
- Allows OPS/MVS to accurately manage via System State Manager

BENEFIT

- **Easily automation started tasks within OPS/MVS System State Manager**
- **Allows use of generic System State Manager message rules**
- **Reports are available during desired time frames**

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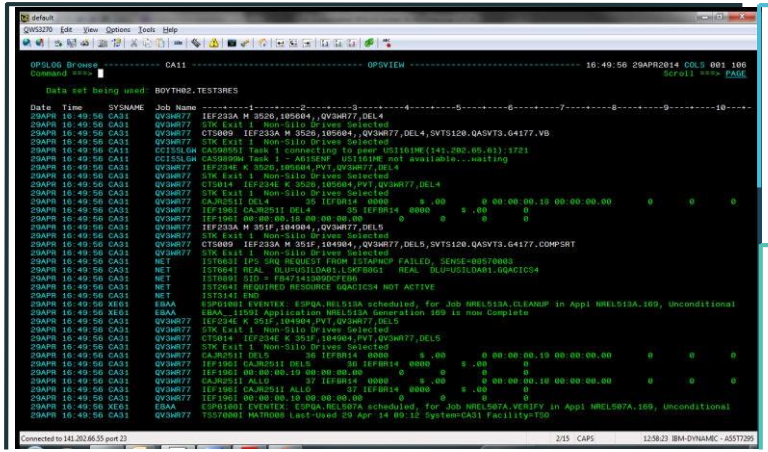
CA View- Dynamic allocation SARBACK Up List

Release CA View report list backup dataset on demand



PAIN

- CA View creates backup report listing dataset, which requires CA View to be recycled to be release the dataset.
- This dataset can be very large, if a client only recycle CA View twice a year.
- Clients have requirements to be up 24 hours / 7 Days

SOLUTION

- Report backup reporting datasets will be dynamically allocated so that View does not have to be recycled to add a new dataset

BENEFIT

- **Eliminate down time to release report backup dataset**
- **Continue and improve the solution to be a 24/7 product**
- **Clients can archive the report backup file to CA View for online viewing if needed**

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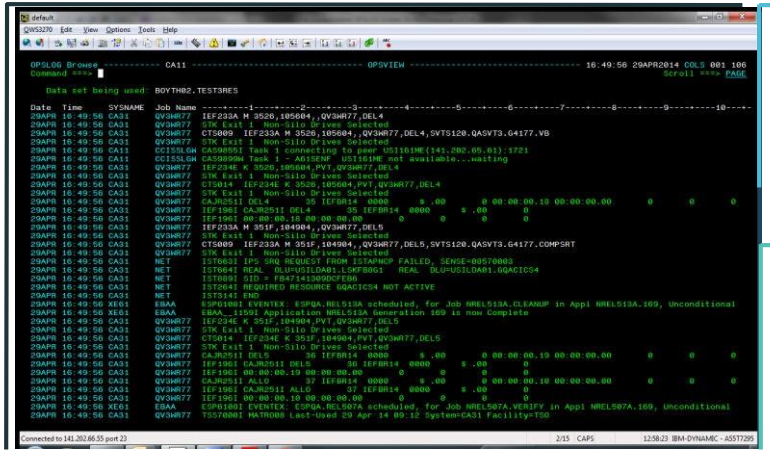
CA View- CICS/ XMS Improvement

Eliminate updating CA View CICS task – for an upgrade



PAIN

- CA View Upgrades require a change to EBC program within XMS / CICS started task.
- Sysprog has to remember this program process as part of the upgrade

SOLUTION

- Remove the requirement to change the EBC /XMS program during an upgrade process.

BENEFIT

- **Simplifying the upgrade process**
- **Less test time verifying the upgrade**
- **Continue and improve the solution to be a 24/7 product**

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CA Output Management Web Viewer® Release 12.1 (GA)

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CA Output Management Web Viewer

What Is It?

▪CA Output Management Web Viewer offers a single web-based point of access to all enterprise documents stored within CA View.

▪The solution enables users to perform numerous actions based on their roles and security profiles, such as view, print, save, email and export text documents stored on CA View

CA Web Viewer – JAVA interface

▪Viewer can run on the Mainframe in USS or any JAVA Server environment

- Local save
- Print on request to locally attached desktop printer
- Email sections of report
- Export reports to Excel format
- Web link support
- Report Favorites Browser

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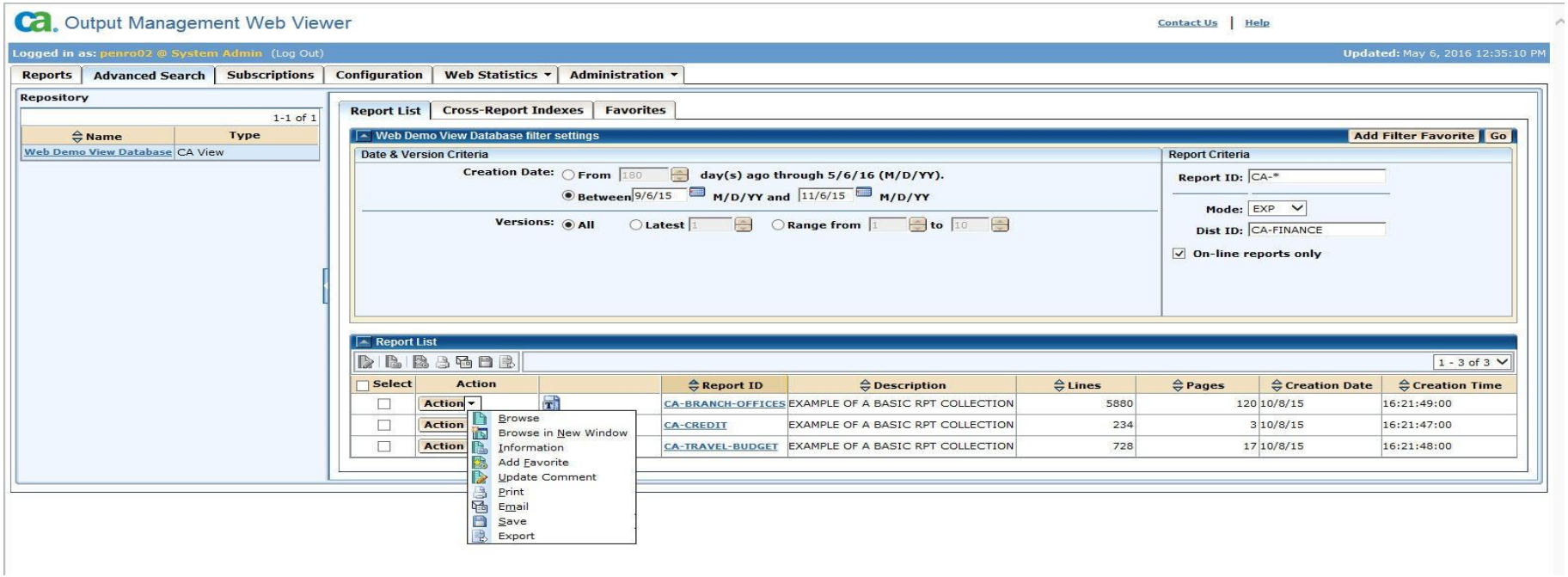
CA Web Viewer 12.1 and Actions features



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On Deck:
CA Content Management Web Viewer Release 14.0

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New Content Management enable RESTful Web Services

Remote Access to Reports

PAIN

- The User must use disconnected systems and multiple UIs to View their jobs/report
- Inability to import and combined job reports into user specified integrations

SOLUTION

- Access to CA View content through RESTful Web Services
- Uses existing secured logon and security rules

BENEFIT

- **Copies of mainframe content will not be unnecessarily proliferated because the tool of choice is not available for viewing reports stored in CA View.**
- **Users will be able to create custom connections to view and retrieve reports**
- **Possible integration into CA API management solution**
- **Possible integration into other vendors Content Management Solution**

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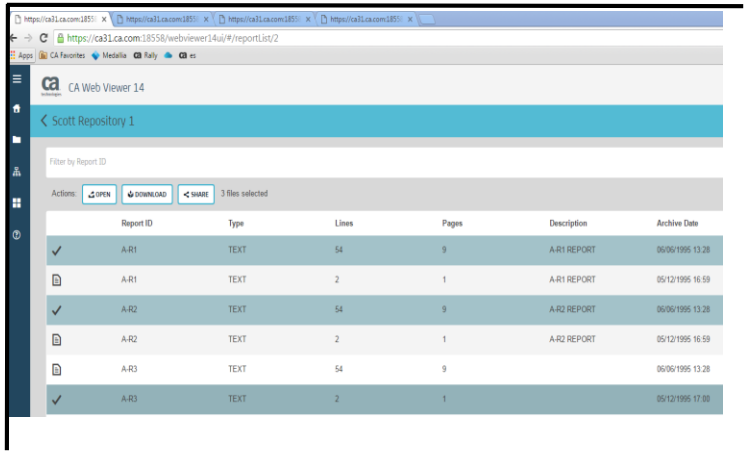
New CA Web Viewer User Interface for CA View

Use any browser on any platform to access CA View content



PAIN

- Non-Intuitive User Interface
- Large install footprint
- Poor application performance

SOLUTION

- A modern UI that is easy to use, run on any modern browser, and on any device that supports a modern browser
- Scalable Performance

BENEFIT

- **Updated User Interfaces allows for dynamic report viewing versus 3270 displays**
- **Easier to install and maintain**
- **Light weight browser based implementation, No desktop software**

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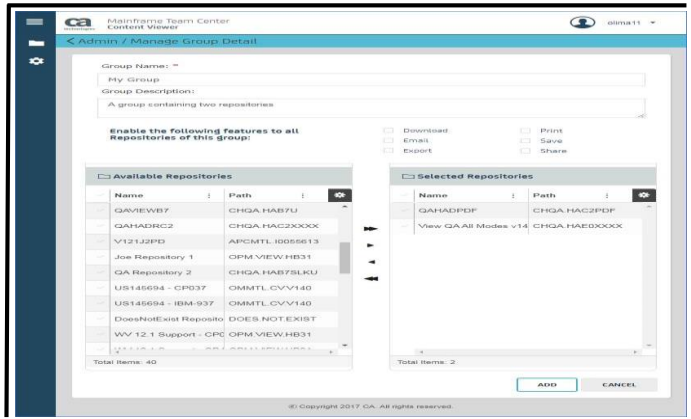
New Web Viewer CA View Repositories grouping feature

Group repositories management



PAIN

- Too much effort for administrators to manage the connection between users repositories that they look at
- Too much time for users to figure what CA View repositories to select

SOLUTION

- Repositories can be grouped so that a user can select a group and only see those repositories in the repository list that are within the specified business process group

BENEFIT

- **Don’t have to wade through a long list of CA View repositories that have no interest to the user or see ones that they are not authorized to see.**
- **Business processes or business units can be grouped and segmented.**
  - **Example – All Statements CA View databases can be group into single look and feel in the web viewer**

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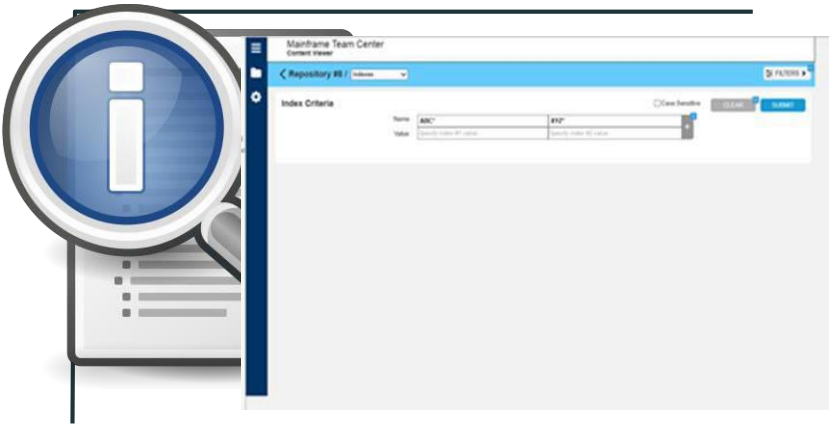
New Web Viewer Robust Report Indexing

Display your desired content faster with report index searching



PAIN

- Poor Performance
- Not scalable
- Not modern

SOLUTION

- Users can search for indexes based on search criteria and get a list of indexes that meet the criteria

BENEFIT

- **Indexing reduce the amount of data within the report that is viewable**
- **Break down of large reports into smaller viewable reports based on values within the report**
- **Search across reports for Reports for a certain Index value (Cross Report Indexing)**

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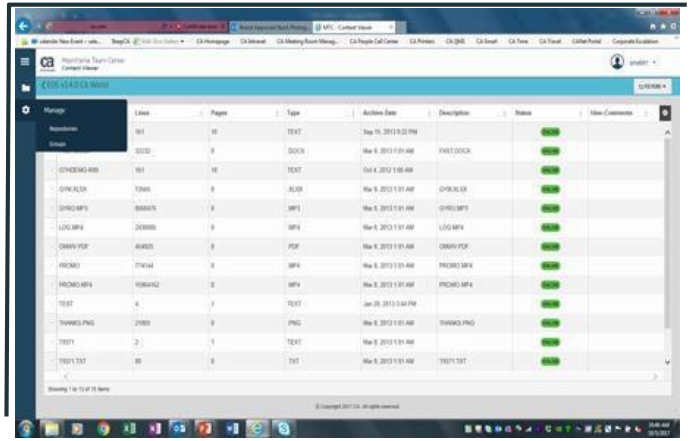
New Web Viewer Report Actions Options

Manipulate and share reports easily



PAIN

- Poor performance downloading large report data
- Poor performance in displaying other formatted documents

SOLUTION

- The report being viewed in the View Content page can be saved
- The report will be emailed from the View Content page
- Reports will be downloaded to the local device
- Linearized PDFs allow streaming of PDF data one page at a time providing performance benefits

BENEFIT

- **User will be able to Save, Email, Print, Download a report.**
- **Admin team will be able to Audit information stored in SMF records**
- **User can view Xerox reports as PDFL's**
- **User will be able to save favorites of a report, index or repository**
- **User will be able to export a text report and save a report name**

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CA Web Viewer- Transformation Improvement

Providing Out Of The Box (OOTB) online report transformation

PAIN

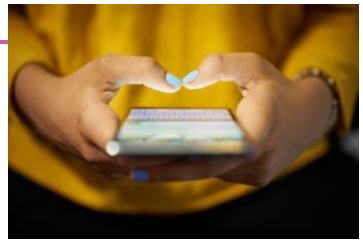
- CA View can archive and store several different report formats.
- AFP, Xerox Metadata, Word, Excel
- Displaying the data in the correct format without using some type of desktop plugin
- Most users cannot install plugin viewers automatically

SOLUTION

- Make CA View smarter and display AFP, Xerox, PCL, Post Script reports as PDF report data in a thin client web viewer.
- Most clients have a PDF viewer on the desktop, no special plugin needed

BENEFIT

- **Eliminate Desktop product Content Viewer plugin, for example AFP viewer plugin**
- **Ease of use for the user, by using common desktop plugin for online viewing of PDF report data**
- **Leverage PDF viewing for complex online viewing requirements.**
- **Keep the CA solution simple to use and thin client web oriented. No desktop install of the solution**



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CA Spool® Release 12.0

Report Distribution, Printer Management, Data Transport and Transformation

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CA Spool – What is it

- z/OS-based solution that securely manages your business-critical print and report delivery requirements across networks, platforms and locations.
- Non-stop operation as it collects reports from multiple sources (including z/OS®, Windows, Linux® and UNIX®), while offering enterprise-wide spooling and print capabilities.
- 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.

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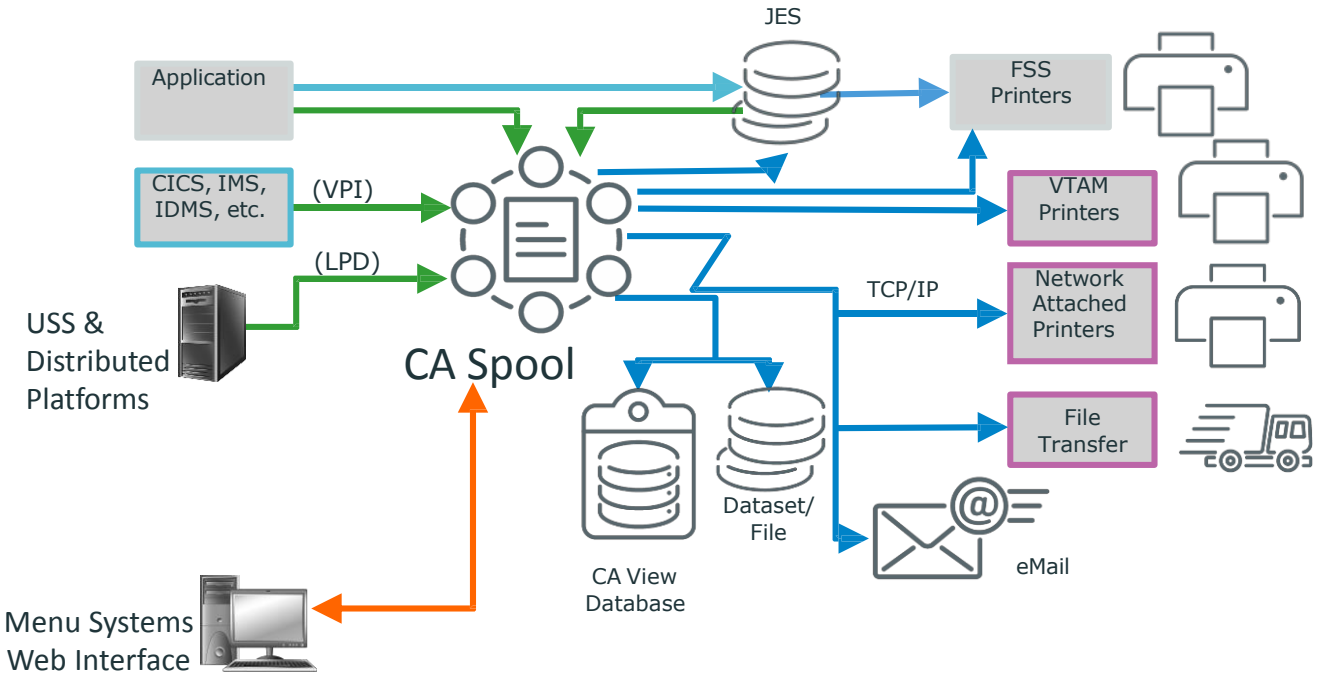
CA Spool - Flexible Print and Report Delivery Solution

Overall Architecture - Complete Printer Management Solution Out Of The Box



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Data Transformation Product Options

Added new transformer options such as the ability to transform from AFP to PDF/A

Transformers are now bundled into 5 licensed options

The bundle you license is based on the Source report type. For example, If you want to transform from AFP to PDF or PDF/A or PCL then you license the AFP bundle. The AFP bundle licenses AFP input to any of the 9 output data streams.

Bundle
AFP Transformer Bundle
XEROX Transformer Bundle
PCL Transformer Bundle
TIFF Transformer Bundle
PDF Transformer Bundle

Output data stream	
AFP	Image
Metacode	PCL
PDF	PDF/A
PostScript	Tiff
Web (HTML)	

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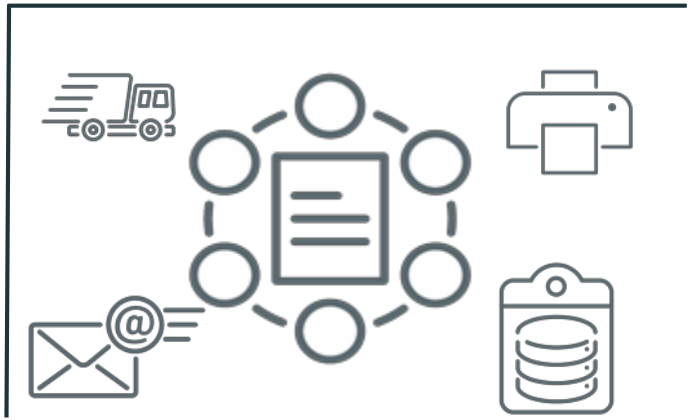
CA Spool – One Printer Management Solution

All options available to run and manage your printer environment



PAIN

- Other Vendors charge for extra features, example TCPIP option
- User exits are needed to do extra print functions
- Data transformation into different formats is limited

SOLUTION

- CA Spool package comes with all features available
  - Except JAVA transformer bundles
- TCPIP, FTP, Email, Virtual Printer Interfaces Out Of The Box
- Most CA Spool user exits have been converted into product features
- Built in Data wrappers (Excel, PDF, Word) for report delivery

BENEFIT

- **CA Spool Package provides an fully integrated Print Enterprise Output Management (EOM) when coupled with CA View / CA Deliver and other Vendor Output Management repositories**
- **DATA can be encrypted point to point delivery when coupled with CA XCOM file transfer option**
- **Generally speaking - One Product Suite / One Solution Package / One Price = Great Solution Value**

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On Deck:
CA Spool Release 14.0

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CA Spool R14.0

Feature	Description
Remove SAS/C dependency	The CA Spool AFP Transformers are the last CA Spool component written in SAS/C.
3270 Large Screen support	The mainframe logon can be initiated from a Single Signon SLJstew suĐh as CA's o‖Ŷ SSO so that the logoŶ sĐreeŶs do not get displayed
SFTP Driver	SAML2 security will be integrated into Web Viewer
Content Management (CMIS) Driver	Automatic file transfer of CA Spool files via the CMIS protocol to remote CMIS-enabled ECM systems. Included feature - text report can automatically be formatted and converted into PDF, HTML or RTF files during transfer.
IPP - Internet Printing Protocol support	A new Internet IPP print driver to print CA Spool files on remote IPP printers and send to remote IPP servers. Add IPP server support to receive IPP print requests from remote clients and remote print servers.
CA Spool Mobile Web App	JohŶ Doe, a Đorporate priŶter adŵiŶistrator at ACME IŶĐ., ‖ould like to ha‖e aŶ app ruŶŶiŶg iŶ his swart phoŶe that can alert him on certain conditions printers can run under like low of toner, out of paper, paper jam, and few others he can address on the floor or direct other team member of his team to address if they are located near to the exact loĐatioŶ ‖here the priŶter sits.

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Influencing Our Roadmap

CA Communities Ideation

- Submit your ideas on communities.ca.com
- Vote & comment on ideas that are important to you
- CA Product Management reviews ideas and updates status as they move through the lifecycle
- 'Currently Planned' idea status indicates inclusion in the Agile Story Backlog or Product Roadmap

Customer Validation

- Register to participate in:
  - Live Demos/End-of-Sprint Reviews
  - Private - Members Only - Online Community
  - Pre-Release Onsite Testing and Support (Beta)
  - Upgrade Support from SWAT Team
- How to register: https://validate.ca.com/key/CHN87RMSDPP55HDW

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Your CA Resources:

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