



What's New With
CA Datacom® Server?
Version 14.0

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Abstract

CA Datacom® Server Version 14.0 for z/OS is in General Availability.

In this session, you can find out how Version 14.0 provides additional connectivity and extended use in JDBC.

CA Datacom Principal Software Engineer Mike Hogan covers the details of CA Datacom Server Version 14.0 enhancements.

Agenda

- CA Datacom Server Version 14.0



CA Datacom and CA Mainframe Software Manager™
(CA MSM)

Product	New ESD	Standard SMP/E	Product Acquisition Srv. & Software Installation Srv.	Health Check & Best Practice Guides	Software Deployment Service	Software Configuration Service
CA Datacom 12.0 DB, DD, DD, SQL, DQ, Fast Restore, Presspack	Yes	Yes	Yes	Yes	Yes	2011
CA Datacom 14.0 DB, DD, SQL, DQ, Fast Restore, Presspack	2011	2011	2011	2011	2011	2011
CA Datacom 14.0 CICS Services, Server	2011	2011	2011	2011	2011	2011
CA Ideal 14.0 Datacom, DB2, VSAM	2011	2011	2011	2011	2011	2012
CA IPC 14.0	2011	2011	2011	2011	2011	2012

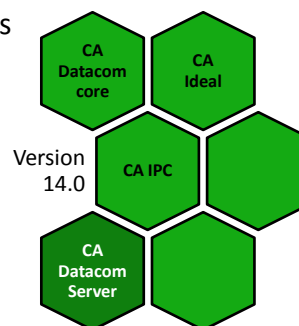


CA MSM

- CA Datacom Server Version 14.0 includes:
 - Software Configuration Service
 - CA MSM user interface
 - Select/store CA Datacom parameter settings
 - Environment verification processes

CA Datacom Server Version 14.0 GA July 2011

- CA MSM – deployment, configuration
- Changes in JDBC connection methods
- JDBC 4.0 methods implemented
- Console command interface
- Support for 64 bit connections
- CCI requirements on the Windows platform optional
- Windows service integration



JDBC type 4 connection

- JDBC type 4 driver:
 - Data stream sent directly to mainframe Datacom Server address space
 - Simplified URL address:
 - `Jdbc:datacom://hostname:portnumber/ServerName=xxxxxxxApplicationId=xxxxxx,UserlD=,Password=`
 - hostname can be either hostname of system ip address
 - portnumber is any valid port number between 1024 and 65535
 - ServerName must match the SERVERNAME supplied by the mainframe server
 - ApplicationId must match the APPLID name supplied by the mainframe server
 - cadcjdbc.jar file is the only thing that is required by the client software
 - jar file can be deployed to any system that supports java 1.6



JDBC 4.0 methods implemented

- You don't have to explicitly load the driver by calling `class.forName` anymore. Driver Manager automatically loads the Datacom driver
- JDBC 4 Connection class provides the `isValid()`.
 - This allows a client to query the database driver to see if a connection is still valid when using connection pooling
- Changed exceptions processing so that exceptions are "stacked"

Console command interface

- Same commands that can be entered thru SVCOMPR
- No APPLID is needed since modify command is directed to job
- Command must be followed by a “=”
- Basic syntax checking is performed for each command
- One command per console command
 - Valid Server functions
 - CANCEL - cancels specify connection
 - EOJ - ends server job
 - Options - echoes options currently in affect
 - Status- provides status on a connection



Console command interface - continued

- MODIFY allows some start-up options to be modified
 - Format is MODIFY xxxxxxxx=yyyyyyyy where xxxxxxxx is the option & yyyyyyyy is the value to change the option
 - /f jobname,MODIFY AUTHID=SYSUSR is an example of a valid command
 - /p jobname will stop the server job, it has the same affect as a /f jobname,EOJ



Support for 64 bit ODBC and JDBC

- 64 bit Windows environment
 - Both ODBC and JDBC are available to connect to mainframe server
 - CCI is not required nor is there a requirement that CCI be installed on Windows system
 - TCP/IP can be used in both environments (32 or 64)



Windows service integration

- What is a Windows service? (DPWS)
 - A long-running executable application that runs in its own Windows session
 - A service can be automatically started when the computer boots; it can be paused and restarted. It does not show any user interface
- **Datacom Proxy Windows Service:** achieved using JNA (Java Native Access), a set of libraries that interact with the underlying operating system without writing any native code
 - ProxyService (ca.datacom.proxy.proxy.service.ProxyService) is part of cadcdc.jar.
 - Multiple proxy services can be started on any given Windows system

DPWS

- Arguments accepted by ProxyService are:

NAME	Optional	Description
-install	No	Installs the proxy windows service
-uninstall	No	Uninstalls the proxy windows service
-name xxxx	Yes	Assigns a name to the service. Defaults to "DatacomProxyService"
-desc xxxx	Yes	Service description. Defaults to "CA DatacomProxyService Description"
-port xxxx	Yes	Defaults to 3909
-help help /?		Prints out the arguments and usage



Additional performance improvements since 14.0 released

- Changes in the way that data is transferred can significantly improve performance when a large number of rows are returned.
- A method to handle block data transfer was introduced in a APAR for USS, Windows and z/OS depending on the type of connection used.
- Additional ongoing enhancements



CA Datacom Server Version 14.0 summary

CA Datacom Server 14.0 delivers customer value

— Easier to install and set up

— Improved usability

— Better performance

— Enhanced standards and platform usage

— Ongoing review of usability and performance toward continued improvements

Version 14.0

CA Datacom core

CA Ideal


CA IPC

CA Datacom Server

CA Datacom CICS Services

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for more information

- Check out all the other CA Datacom and CA Ideal information in the CA Datacom booth
- Be sure to see the CA Datacom 2012+ session, given by Kevin Shuma in the Main Hall Auditorium on Thursday May 10th at 10 AM ET. The session will also be available on-demand following May 10th.
- Visit and join the CA Datacom (CADRE) Global User Community at <https://communities.ca.com/web/ca-datacom-cadre-global-user-community/welcome123>

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