



What's New in CA IDMS Since 19.0 GA?

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IUA/CA IDMS™ Technical Conference May 7-11, 2018



Agenda 1 CONTINUOUS DELIVERY & PORTFOLIO SIMPLIFICATION 2 IMPLEMENTED COMMUNITY IDEAS 3 INTEGRATION WITH OTHER PRODUCTS Copyright © 2018 CA. All rights reserved.





Continuous Delivery

- CA IDMS 19.0 was GA complete in August 2016
- Delivering enhancements as PTFs to CA IDMS 19.0
 - Updated documentation via DOCOPS
 - Developed, tested, and user validated via agile process
 - Increased value that is easy to deploy
- A deeper dive into what we've delivered since then



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Portfolio Simplification

- · Most options now included in base product
 - Includes SQL, Server, and Web Services
 - Exceptions are Presspack and CA IDMS Performance Monitor
- Supported for both IDMS 18.5 and IDMS 19.0
 - CA IDMS 18.5 requires additional license keys
 - CA IDMS 19.0 enhancement RO96807 enables all new options
- CA IDMS installs all mainframe code with base software
 - No additional installation required
 - Download IDMS Server client code from CA support on-line
- To use components update RHDCPINT module

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Implemented Community Ideas

Implemented Community Ideas

zIIP Exploitation

- zIIP suspended instead of stopped when following loaded from unauthorized library (RO92366)
 - Database procedure
 - System mode SQL procedure
 - System mode user exit
- zIIP processing can be re-enabled without restarting CV if suspended due to CA IDMS nucleus module loaded from unauthorized library (RO93622)
- DCMT Vary ZIIP Online/OFFline



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Implemented Community Ideas (cont.)

- Installation upgrade (RO93158)
 - During upgrade install, only dictionary entities that have been changed are updated
 - List of changed entities in CAGJSRC member IDDXI5J0
- DCPROFIL enhanced to display current SVC module (RO96512)

```
* CURRENT SVC *

SVC NUMBER (#SVCOPT): 172 CV NUMBER (CENTRAL VERSION #): 222

SVC NAME: 19.0 SVC COMPILE DATE: 20140806

SVC FMID: CAGJJ00 SVC PTF: 15.49

SVC FMID: CAGJJ00 SVC PTF: N/A

* SVC OPTIONS *

AUTHREQ: NO CVKEY: UNSECURED

SMF: YES SVCXLEN (ERE Extension length): 00112

* SVC CV TABLE *

CCV LIST: 067 190 222
```

Implemented Community Ideas (cont.)

- Range of the number of EREs to allocated at system startup changed from 0 to 255 to 0 to 1000 (RO93347)
- Calculating the number of TCEs enhanced to prevent over-allocating memory below the 16Mb line (RO93347)



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Implemented Community Ideas (cont.)

- Culprit enhanced to support Large Block Interface (LBI) for input and output files (RO95270)
- IDMSDMLC enhanced to support floating comments(*>) (RO96611)

```
DMLC0015 00582 READY EMP-DEMO-REGION *> WILL OBTAIN EMPLOYEE
00583 USAGE-MODE IS RETRIEVAL.
00584 MOVE 15 TO DML-SEQUENCE
00585 CALL 'IDMS' USING SUBSCHEMA-CTRL
00586 IDBMSCOM (37)
00587 EMP-DEMO-REGION.
00588 PERFORM IDMS-STATUS.

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```

Implemented Community Ideas (cont.)

- Batch ERUS job statistics enhanced to include job identifier, job name, accounting information (SO00360)
 - SMF Type 30 record content updated
 - New application monitor report
 - · PMARPT21 Batch Job Accounting summary report







Implemented Community Ideas (cont.)

- IP address (IPV4 or IPV6) added to task statistic information (RO97013)
 - SMF Type 30 record content updated
 - New SREPORT 004 IDMS-DC Task Statistics by IP Address
 - New SREPORT 22 IDMS-DC Transaction Statistics by IP Address

```
REPORT NO. 04

SELECTED FROM: 00000 00:00 TO: 00000 00:00

ACTUAL: 17065 14:02 TO: 17065 14:03

CV JOB NAME: SUPST50

CV NUMBER: 250

IP ADDRESS: ::ffff:7f00:1

2 NUMBER TASK EXECUTIONS

2 NUMBER FROGRAMS CALLED 1 NUMBER PROGRAMS LOADED

0 NUMBER TERMINAL READS 0 NUMBER TERMINAL WRITES

0 NUMBER TERMINAL READS 0 NUMBER TERMINAL WRITES

0 NUMBER TERMINAL READS 50 NUMBER GETSTE REQUESTS

0 NUMBER SECRE REQUESTS 0 NUMBER REGISTS NUMBER REGISTS REQUESTS

0 NUMBER DELSCR REQUESTS 0 NUMBER GETSTE REQUESTS

0 NUMBER DELSCR REQUESTS 0 NUMBER GETOR REQUESTS

56 NUMBER GETTIME REQUESTS 0 NUMBER GETTIME REQUESTS

0 NUMBER DELSCR REQUESTS 0 NUMBER GETTIME REQUESTS

56 NUMBER GETTIME REQUESTS 0 NUMBER SETTIME REQUESTS

0 NUMBER DELSCR REQUESTS 0 NUMBER SETTIME REQUESTS

10 NUMBER DELSCR REQUESTS 0 NUMBER PAGES READ

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```

Integration with Other Products





Test Data Manager (TDM)

- Generates sophisticated sets of test data from relational databases for robust application testing
- CA TDM supports extracting and generating test data for an SQL database
- May not work with all network databases because of limitations of INSERT with SQL
- In order to access and generate data for some network records a table procedure must be written



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Test Data Manager (TDM) (cont.)

- Samples table procedures added to SAMPJCL show how to convert table procedures using DML to use SQL (RO97698)
- SQL Quick Bridge (Quick Bridge) generates table procedures using network DML syntax
- AGJCOVEN 2 level, network
 - Generated by Quick Bridge
 - EMPLOYEE, COVERAGE
- AGJHOSPN 3 level, network
 - Generated by Quick Bridge
 - EMPLOYEE. COVERAGE, HOSPITAL-CLAIM

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Test Data Manager (TDM) (cont.)

- AGJCOVEQ 2 level
 - Converted to SQL
- AGJHOSPQ 3 level
 - Converted to SQL
- DocOps details how to convert Quick Bridge generated table procedure to use SQL
 - Convert a Generated Table Procedure to Use SQL



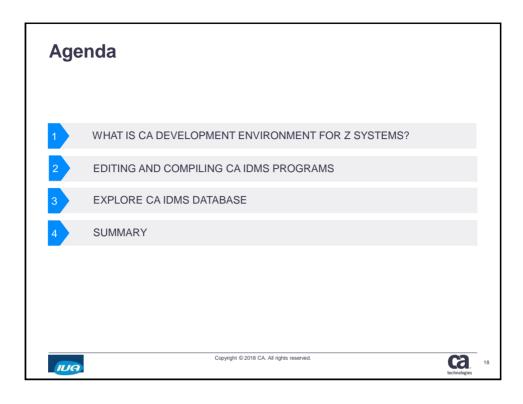
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Using CA Development Environment for z
Systems with CA IDMS







What is CA Development Environment for z Systems?





CA Development Environment for z Systems

- It is a CA branded version of IBM Developer for z System
- Eclipse-based Integrated Development Environment
- Allows you to Edit and Build z/OS applications
- Bundled with CA plugins
 - CA Endevor SCM
 - CA Intertest
 - CA Mainframe Application Tuner
 - CA FileMaster Plus
 - CA SymDump



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CA IDMS Use Cases

- · Editing and compiling CA IDMS programs
 - COBOL, PL/I and Assembler
- Explore CA IDMS Databases
 - SQL and Network defined

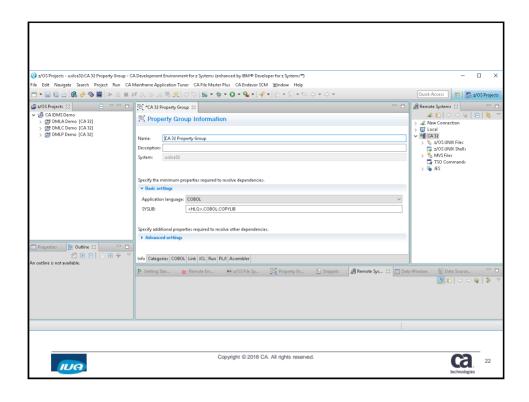
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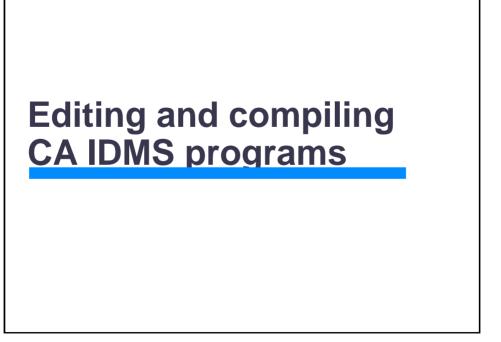
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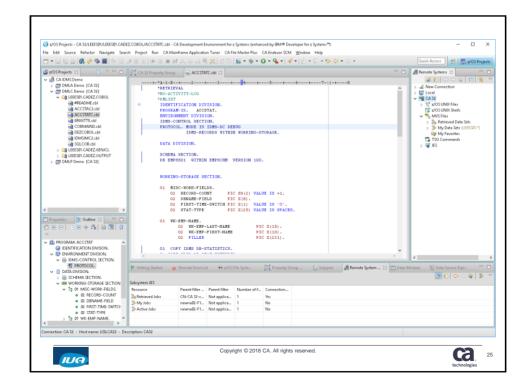
Sample REXX Exec Programs

- Provide Sample REXX execs
 - IDMSEMLC and IDMSEMLP
 - Tailor this to your specific environment
 - RO98318
- Invokes the IDMS preprocessor
- Able to recognize DML commands for COBOL and PL/1 programs on your text editor

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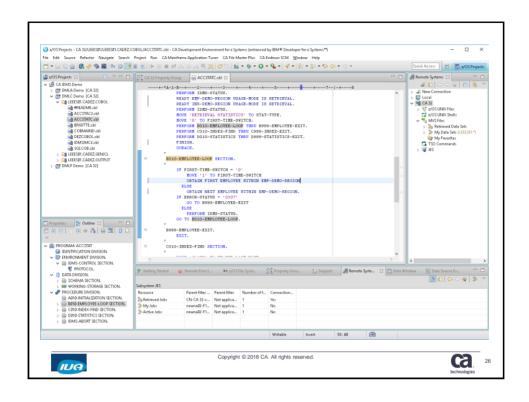
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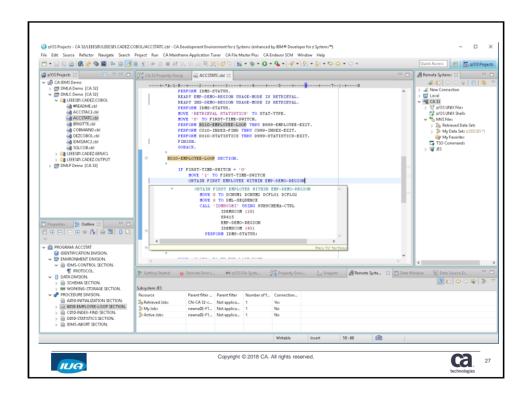








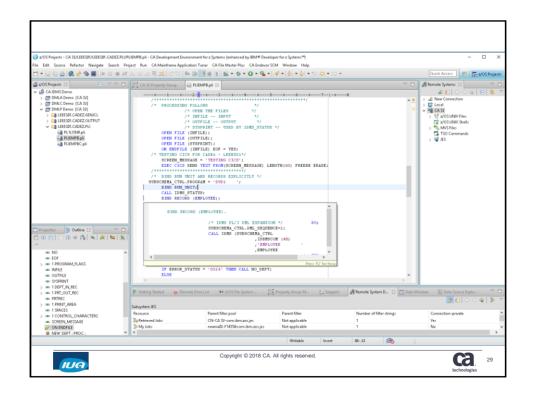
















What is a Property Group?

- Named sets of property values
- Where you define resource properties
- Can be shared and reused among projects, systems, and users
- Once defined, can be applied to the z/OS projects and resources you create on that system
- Helps maintain consistency in your development and build environment



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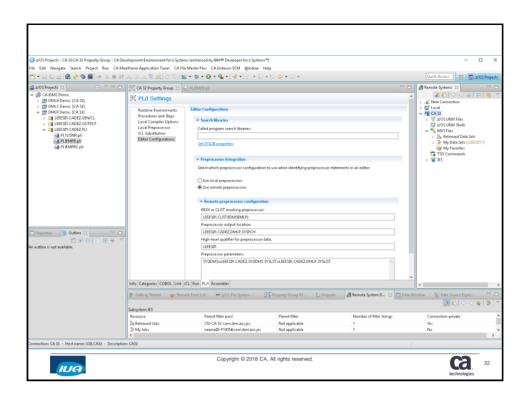


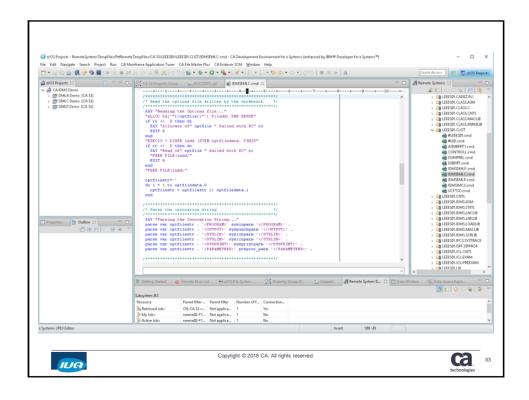
© 1005-Projects - CA 127-CA 131 Progray Group - CA Development Environment for 3 System (southward by (MM ® Developer for 3 System)*)

For Set Newpiler Search Project from CAManderham Application Traver CAP Anderbam Anderba



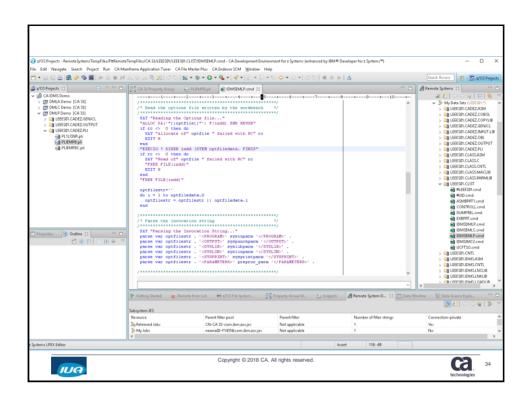












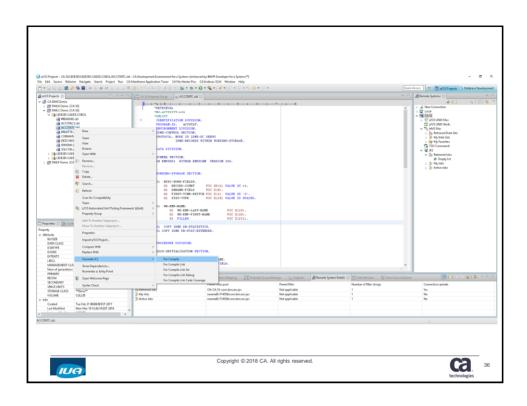
Sample JCL Procedure Programs

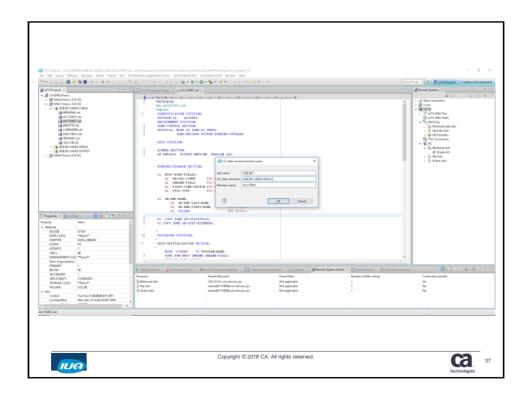
- Provide JCL Procedure Programs
 - IDMSJMLC, IDMSJMLP and IDMSJMLA
 - RO98318
- Generated JCL is set up to call the JCL procedures
 - Calls the IDMS pre-compiler and compiler





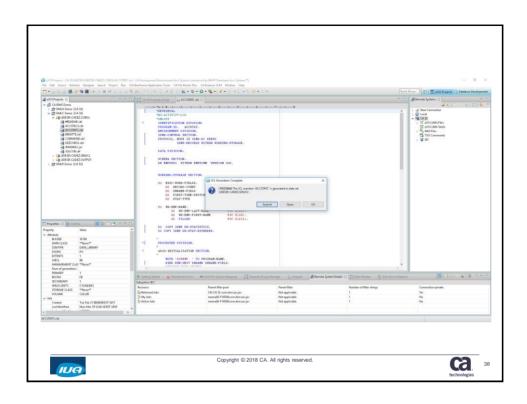


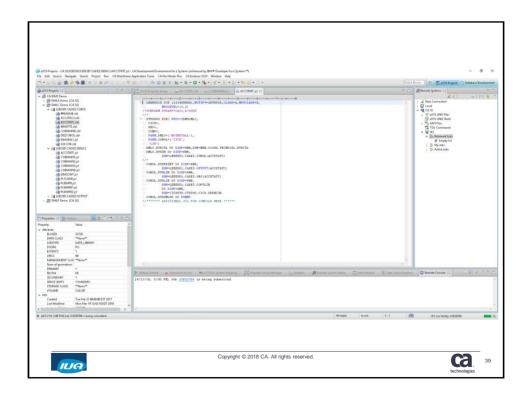






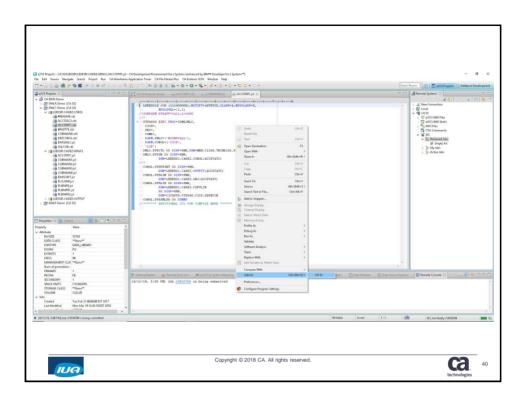


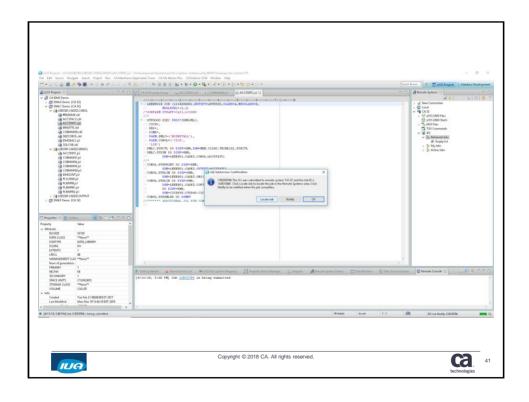






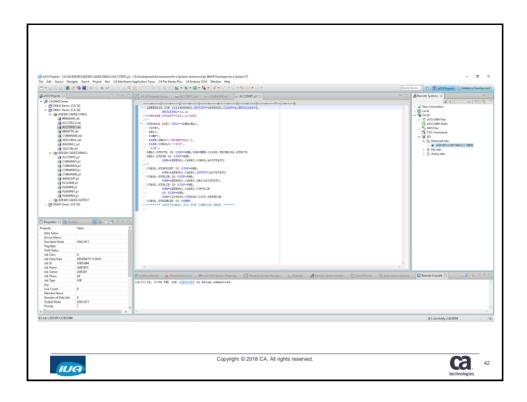


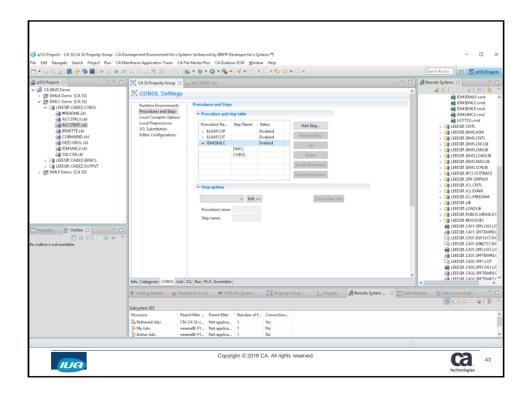






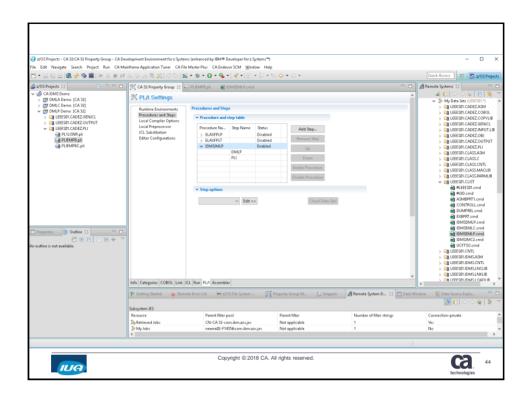


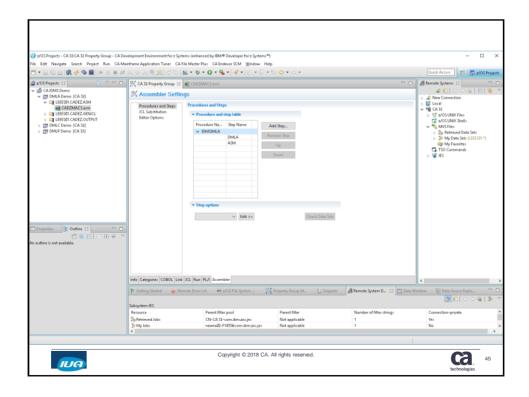
















User Macro File

- Macro definitions for the HLAsm parser (RO99485)
- For Assembler programs only
- Release 19.0, member "IDMSUMAC"

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User Macro File - Benefits

- Editor recognizes IDMS DML Assembler Macros
- Content assist
- · Syntax checking

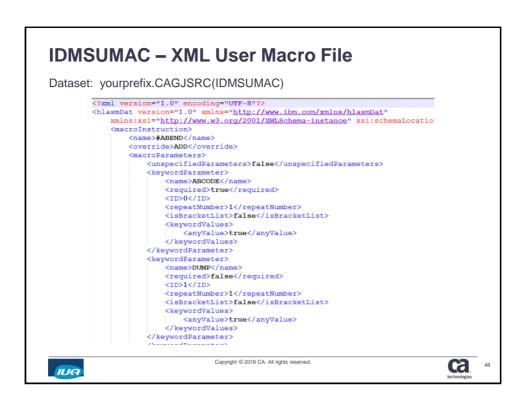
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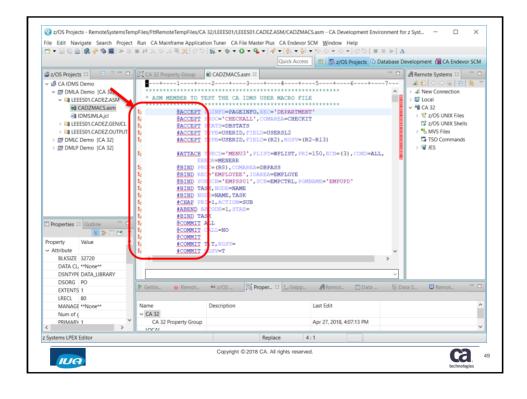
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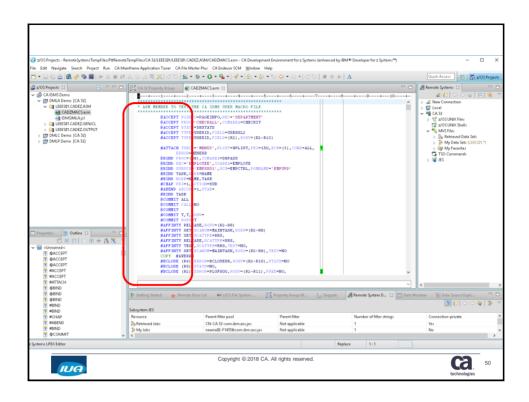


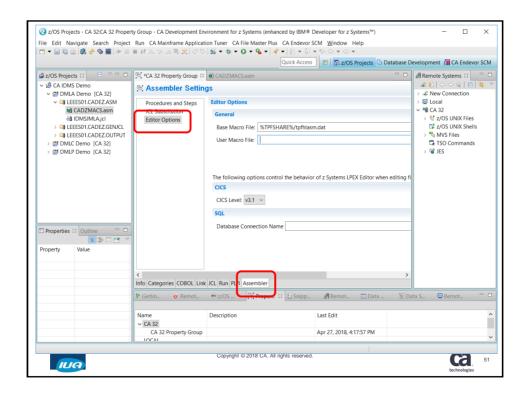






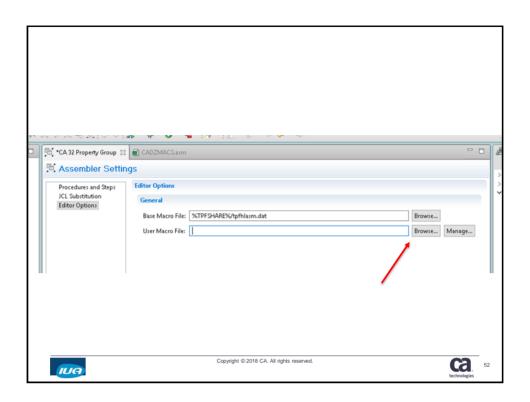


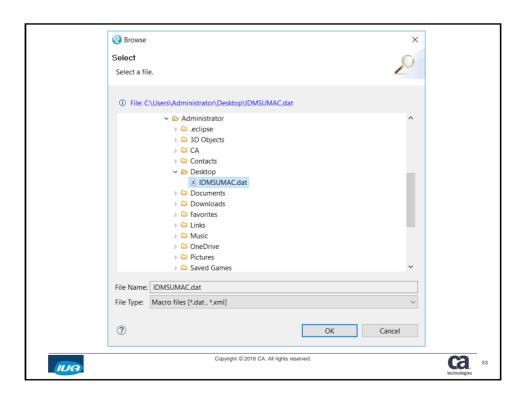








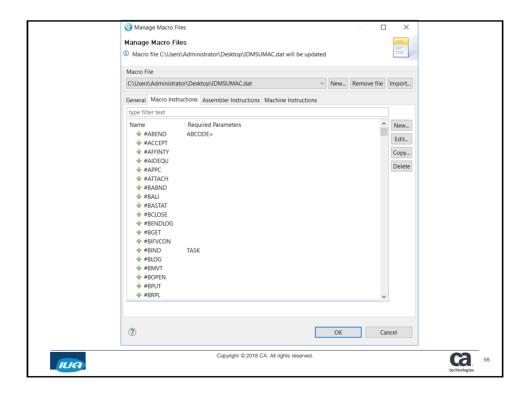






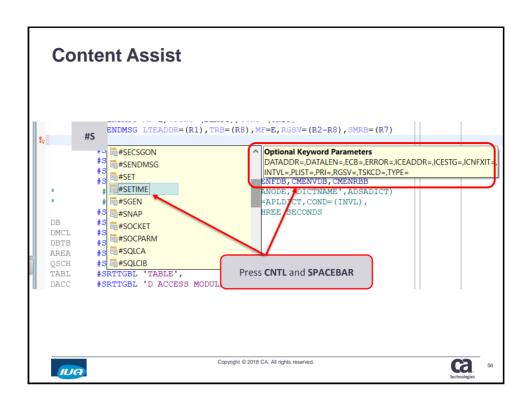












Editing and Compiling CA IDMS Programs

- Property Groups
 - REXX Execs
 - JCL Procedures
 - User Macro File
- Go to DOCOPS!
 - Administrating>Integration with CA Development Environment for z Systems

https://docops.ca.com/ca-idms/19/en/administrating/integration-with-ca-development-environment-for-z-systems



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Explore CA IDMS Database

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Explore CA IDMS Databases

- Database Development Perspective
- Data Source Explorer
- · Discover and query Databases
 - Uses CA IDMS JDBC Driver
 - Access SQL & Network defined databases
 - View all your Catalogs, Dictionaries, Schemas and Tables

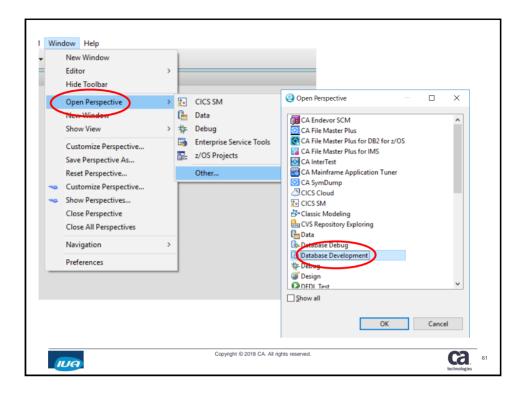
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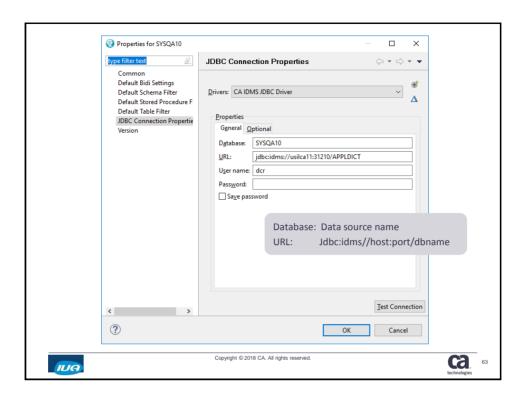


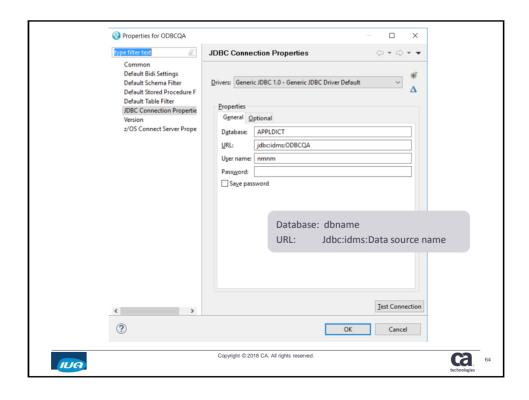






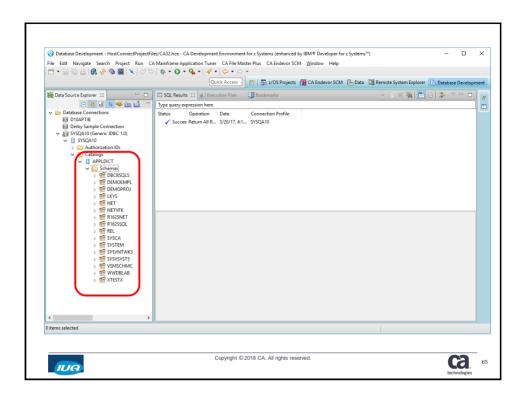


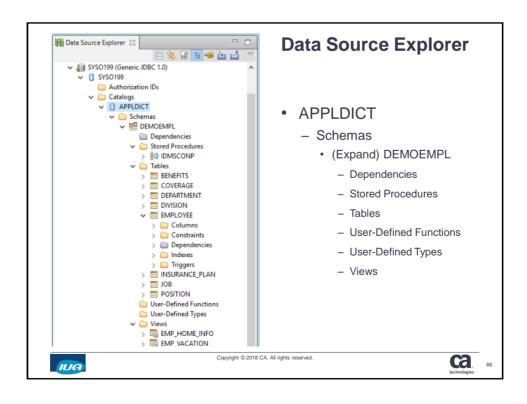






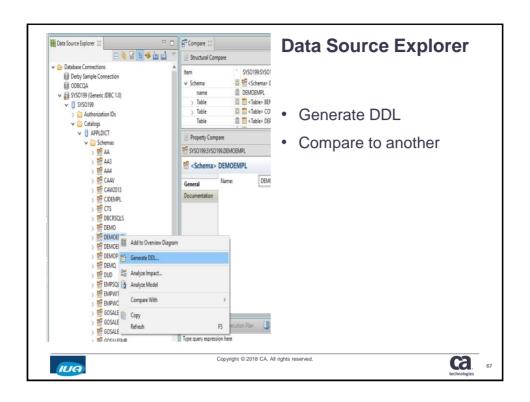


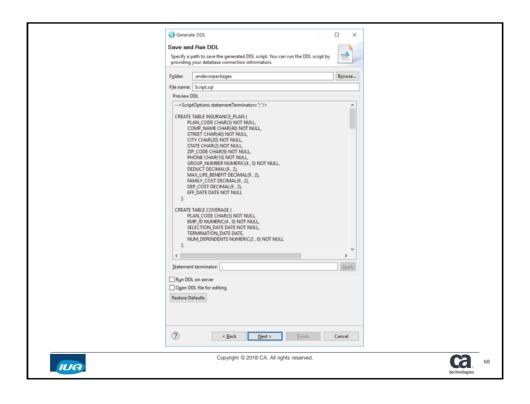






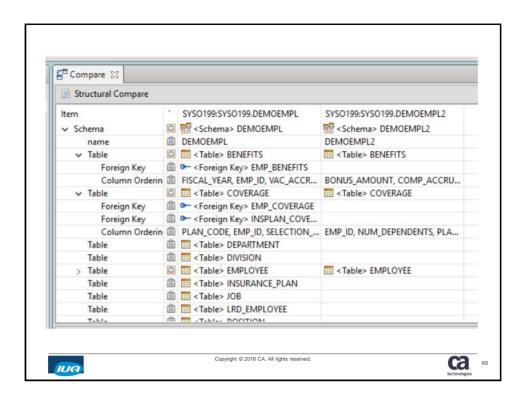


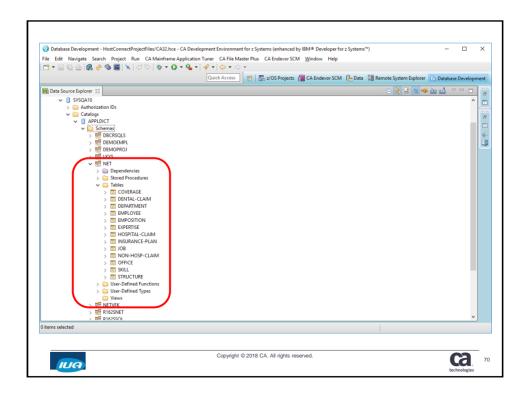






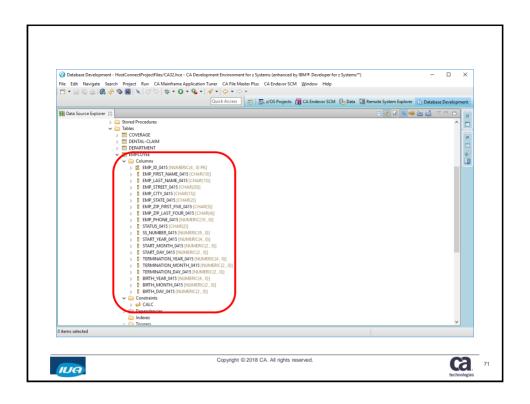


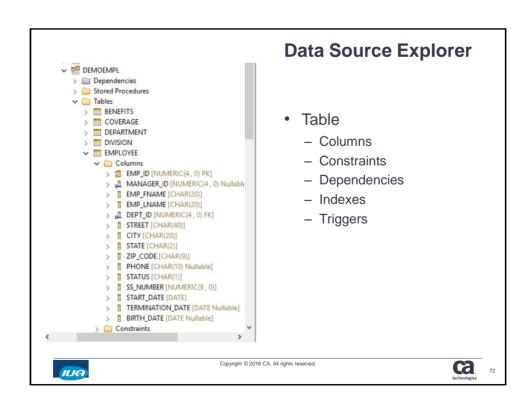






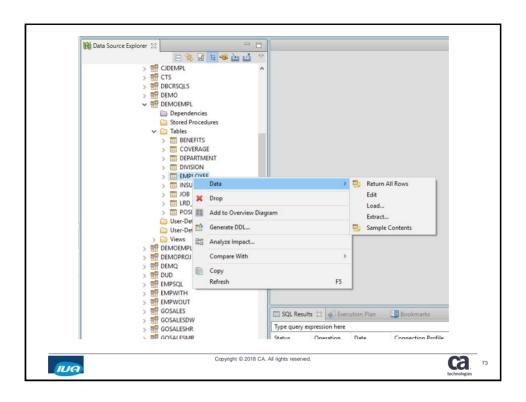


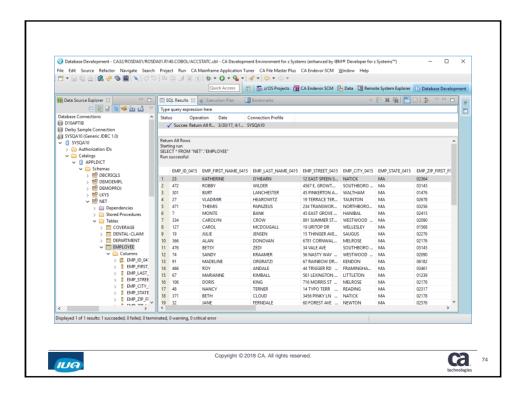
















Summary

- Developers are able to maintain IDMS applications on a modern platform
- Enhanced Text editing and integrated pre-compilers for IDMS programs
- Explore CA IDMS Databases

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Session Summary

- Portfolio simplification
- · Continuous delivery allows timely
- Your voice is being heard submit those ideas through the IUA community site

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Questions & Answers





