CA Communities Webcast 2017

CA Plex CA 2E Lightning Talks

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Rethink Modernization

December 6, 2017

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The Agenda

1. Introductions: Mark O'Brien CM First, Steve Solomon CA, Lenn Thompson CA
2. Product Updates: **The Road to the Future** By Steve Solomon
3. Lightning Talk #1: **CA 2E SQL Generation Tips** By Eamonn Foley & Mark Schroeder
4. Lightning Talk #2: **Call Migrated CA 2E Functions as Java Web Services.** By Abram Darnutzer & Chris Smith
5. Discussion and Next Steps

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An Important Announcement to the CA Plex CA 2E Community:

CM First and our Partners
are offering a US$ 25 Gift Card
to CUSTOMER SPEAKERS
who deliver a future
CA Communities Webcast Lightning Talk
on a Topic of their choosing.

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Product Management Update

Steve Solomon

2017 Wrap Up

And

The Road Ahead

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9th Annual World Wide Developer Conference

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Rethink Modernization

AXSOS user oriented IT
innovative · dynamic · genuine

AXON iVY
digitalize your business

HAWK BRIDGE

SODiSA
www.sodisa.biz

WEBSYDIAN™

User Group Presidency

- Christoph Heinrich – Co-President

- Introducing

  Amy Lugibihl – Co-President

9th Annual World Wide Developer Conference

I think the video sums it up: https://youtu.be/_vXbpQ6VmUw

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CA Plex Update

- CA Plex 7.2.1 Cumulative Update **Cum PTF002**
  - Complete (35+ Fixes) (25+ in PTF001)
  - Posted and Ready to Download
- New Certifications
  - Windows Server 2012 r2
  - Windows Server 2016
  - MS SQL Server 2016

Group model extract/update – long duration

- This improvement has been addressed as part of CA Plex 7.2.1 PTF build 001. Performance has improved by 35%.

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Roadmap: CA 2E

Timeline as December 2017

	Delivered	Planned	Under Consideration
Product/ Releases	**CA 2E 8.7**	**CA 2E 8.8**	**CA 2E 8.8+**

Marquee Features/ Business Value	▪ **Simplify conversion from DDS to DDL database** by allowing you to continue to use RLA functions without regenerating and recompiling them
	▪ **Simplify deployment and Change Management** by allowing generated database objects to be compiled into any desired SQL collection or library as specified in the YSQLLIB model value
	▪ **Ensure that indexes are protected from data corruption** by creating them with LVLCHK(*YES) when the RCDFMT keyword is used
	▪ **Change Management support** for DDL objects
		▪ **IBM i OS 7.3 Certification** including all core components (**Completed**)
		▪ **Improve SQL Support by** adding enhanced support for SQL
		  ▪ Optimize for “N” Rows
		  ▪ Partition Support
		  ▪ Data access by file type - RLA for DDS and SQL for DDL/SQL files
		▪ **Make it easier to consume web services** by having meaningful names in WSDL
		▪ **Make CA 2E Easier to Use** by adding native string handling routines
		▪ **Architectural Runway for REST API Enablement**
			▪ **Customer Enhancements**
			▪ **Improved Performance**
			▪ **REST Enablement**
			▪ **Select by Column Name**

Currently GA

CA 2E 8.7 PTF Roll Up #1 is in Testing and Validation

Thank You to the customers assisting in this effort

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End of Service Reminders

- CA Plex 7.1 – EOS December 2018
- CA Plex 7.2 – EOS December 2018
- CA 2E 8.6 – EOS December 2018

The CA Team Remains Focused on Reducing Backlog and providing support for customers upgrading to New Release

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Lightning Talk #1:

CA 2E SQL Generation Tips

By:

Eamonn Foley

Mark Schroeder

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File and Field Naming

There are options to consider when modernizing a file name to SQL in 2E.

- Keep the file and field names the same.
- Keep the file name the same, give the fields enhanced names.
- Change the file and fields to enhanced names.

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Modernizing Applications with SQL

Name Scenarios

Enhance SQL Name?	YSQLVNM Value	Model File Name	Table name	Table Implementation Name	Implementation name available for the table?	Table Name used by RLA function	Table Name used by SQL function	Function re-compilation required after enhanced table name?
Y	*LNG	Product	Product_TABLE	UUA2REP	Y	UUA2REP	UUA2REP	N
N	*LNG	Product	Product	UUA2REP	N	UUA2REP	UUA2REP	N/A (*)
Y	*LNG	Purchased_Products	Purchased_Products	UUB2REP	Y	UUB2REP	UUB2REP	N
N	*LNG	Purchased_Products	Purchased_Products	UUB2REP	Y	UUB2REP	UUB2REP	N
Y/N	*SQL	Product	Product	UUA2REP	N	UUA2REP	Product	N
Y/N	*SQL	Purchased_Products	Purchased_Products	N/A	N	UUA2REP	Purchased_Products	N
Y/N	*DDS	Product	N/A	UUA2REP	Y	UUA2REP	UUA2REP	N
Y/N	*LNF	Product	UUA2REP	UUA2REP	Y	UUA2REP	UUA2REP	N
Y/N	*LNF	Purchased_Products	UUB2REP	UUB2REP	Y	UUB2REP	UUB2REP	N
Y	*LNT	Product	Product_TABLE	UUA2REP	Y	UUA2REP	UUA2REP	N
N	*LNT	Product	Product	UUA2REP	N	UUA2REP	UUA2REP	N/A (*)
Y/N	*LNT	Purchased_Products	Purchased_Products	UUB2REP	Y	UUB2REP	UUB2REP	N

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File and Field Naming

- Keep the file name the same, give the fields enhanced names.
  - Change model value YSQLLEN to length greater than 10.
  - Change model value YSQLVNM to *LNF.
  - Use DDL generation mode.
  - Set Enhanced SQL Naming to Y.

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File and Field Naming

- Keep the file the same and give the fields enhanced names.
  - Change model value YSQLLEN to length greater than 10.

```
                    Change Model Value (YCHGMDLVAL)

Type choices, press Enter.

Model value name . . . . . > YSQLLEN       YABRNPT, YACTCND, YACTFUN...
Model value  . . . . . .     20
```

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File and Field Naming

- Keep the file the same and give the fields enhanced names.
  - Change model value YSQLVNM to *LNF

```
                    Change Model Value (YCHGMDLVAL)

Type choices, press Enter.

Model value name . . . . . > YSQLVNM       YABRNPT, YACTCND, YACTFUN...
Model value  . . . . . .     *LNF
```

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File and Field Naming

- Keep the file the same and give the fields enhanced names
  - Set Enhanced SQL Naming to N.

```
 EDIT FILE DETAILS                          T87TST
File name . . . . . . . . . : USR User DDS
Attribute . . . . . . . . . : CPT          Field reference file. . : *NONE
Documentation sequence. . . :              Source library. . . . . : T87TSTGEN
GEN format prefix . . . . . : AE           Distributed . . . . . . : N (Y,N)
Assimilated physical. . . . :              Enhance SQL Naming. . . : N (Y,N)
Record not found message. . : USR User DDS            NF  Msgid. . : USR0072
Record exists message . . . : USR User DDS            EX  Msgid. . : USR0073
```

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File and Field Naming

- Keep the file the same and give the fields enhanced names
  - Generation Mode is DDL

```
                        Change Model Value (YCHGMDLVAL)

Type choices, press Enter.

Model value name . . . . . > YDBFGEN       YABRNPT, YACTCND, YACTFUN...
Model value  . . . . . .     *DDL
```

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Modernizing
Applications
with SQL

File and Field Naming

- File is the original file name.
- Fields are descriptive names based on the filed descriptions.

```
                    Select and Sequence Fields

Type sequence numbers (1-999) to select fields, press Enter.


Seq  Field            File             Type                Length  Scale
___  USR_USER_ID      TTAECPP          CHARACTER               10
___  USR_USER_NAME    TTAECPP          CHARACTER               25
___  USR_STATUS       TTAECPP          CHARACTER                1
```

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File and Field Naming

- Fields can still be referred to by the DDS names.
- Functions still run without having to be recompiled.

Seq	Field	Text	Len	Dec
____	AEADVN	USR User ID	10	
____	AEAETX	USR User Name	25	
____	AEACST	USR Status	1	

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File and Field Naming

- Using enhanced file and enhanced the field names.
  - Change model value YSQLLEN to length greater than 10.
  - Change model value YSQLVNM to *LNG.
  - Use SQL or DDL generation mode.
  - Set Enhanced SQL Naming to Y.

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Lightning Talk #2:

Call Migrated CA 2E Functions as Java Web Services.

By

Abram Darnutzer

Chris Smith

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Questions?