

Simon Cockayne and Rory Hewitt CA 2E Development Team

Session 6B Thursday June 2° 2011 (4:15 pm – 5:00pm)



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Rory & Simon - the dynamic duo

- The Magic Circle won't share its secrets...but we will.
- Rory and Simon, are the most entertaining engineers at CA [citation needed].
- We will divulge time-saving, frustration-busting, oh-wowing, "i-never-knew-it-could-do-THAT" tips and techniques...to help you get the very best out of the 2E family of products.
- You'll be glad you came!



Using dynamic command keys

- Simple technique to display different command keys
- Different keys for different authority users
- Different text for different languages
- Allow for "F24=More keys" functionality



A1

9/25/09 10:18:08

EDIT FUNCTIONS

LIEMMOOTSOL

Fi'	le name.		*Standard	header/footer	**	1ST LEVEL	жж
-----	----------	--	-----------	---------------	----	-----------	----

? Function	Function type	nccess patn
_ *STANDARD REPORT HEADINGS	Define report format	Physical file
*STANDARD SCREEN HEADINGS	Define screen format	Physical file
_ ∗STD CUA ACTION BAR	Define screen format	Physical file
_ *STD CUA WINDOW		Physical file
*STD SCREEN HEADINGS OPT1	Define screen format	Physical file
*STD SCREEN HEADINGS (CUA)	Define screen format	Physical file
*STD SCREEN HEADINGS(MLS)	Define screen format	Physical file
*STD 27×132 HEADINGS(MLS)	Define screen format	Physical file
_ Set Bottom Instruction	Execute user source	*NONE
_ 16915149	Define screen format	Physical file

More...

SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function

A1 9/25/

9/25/09 9:56:07

EDIT SCREEN FORMAT DETTILLS

HEWNOOTSON

Format : <u>Screen footer</u> Type: FTR

Blank lines before fmt : __ or Fixed start line no : 23

?	Field	Func	Typ	Usg Ovr	Length	GEN name	Etp	Rqd LL
	*Function main file mbr	FTR	VNM	0	10	*FILMBR	Α	
	*COMMAND KEY TEXT 1	FTR	NAR	0	78	*CMDTX1	Α	
	*COMMAND KEY TEXT 2	FTR	NAR	0	78	*CMDTX2	Α	
	*SFLSEL TEXT 1	FTR	NAR	0	78	*SELTX1	Α	
	*SFLSEL TEXT 2	FTR	NAR	0	78	*SELTX2	Α	
	*SFLSEL PROMPT TEXT	FTR	NAR	0	78	*SELPMT	Α	
	*ACTION BAR CHOICE AREA	FTR	NAR	0	78	*AB0CHCARA	Α	
	*ACTION BAR DIVIDER	FTR	NAR	0	78	*AB0DVD	Α	
	*WINDOW TITLE	FTR	NAR	0	25	*WDWTTL	Α	
	*TOP INSTRUCTION1	FTR	NAR	0	78	*TOPIN1	Α	+

SEL: Z-Details, A,B,C,D-Text position, I,O,H,'-'-Field usage.

F3=Exit F7=Fmt rel F10=Sequence F19=Add function field

F24=More keys

EDIT SCREEN FORMAT DETILLS

HEMMOOTOOM

Format : <u>Screen footer</u> Type: FTR

Blank lines before fmt : __ or Fixed start line no : 23

?	Field	Func	Typ	Usg (Ovr	Length	GEN name	Etp	Rqd LL
	*TOP INSTRUCTION2	FTR	NAR	0		78	*TOPIN2	Α	
	*BOTTOM INSTRUCTION	FTR	NAR	0	0	78	*BTMIN	Α	
	*SCREEN ID	FTR	VNM	0		10	*SCREEN ID	A	

SEL: Z-Details, A,B,C,D-Text position, I,O,H,'-'-Field usage.

F3=Exit F7=Fmt rel F10=Sequence F19=Add function field F24=More keys

*STD SCREEN HEADINGS OPT1

...so it looks like this...

EDIT FUNCTIONS

ILMK00130H

File name	. : *Standard	header/footer	жж	1ST LEVEL	жж

?	Function	Function type	Access path
	*STANDARD REPORT HEADINGS	Define report format	Physical file
	*STANDARD SCREEN HEADINGS	Define screen format	Physical file
	*STD CUA ACTION BAR	Define screen format	Physical file
	∗STD CUA WINDOW	Define screen format	Physical file
	*STD SCREEN HEADINGS OPT1		Physical file
	*STD SCREEN HEADINGS(CUA)	Define screen format	Physical file
	*STD SCREEN HEADINGS (MLS)	Define screen format	Physical file
	*STD 27x132 HEADINGS(MLS)	Define screen format	Physical file
	Set Bottom Instruction	Execute user source	*NONE
	16915149	Define screen format	Physical file

More...

SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function

************* End of data *********************

EDIT FUNCTION PARAMETERS

LIEMVOOTOOL

Function name. . : Set Bottom Instruction Type : Execute user source

Received by file : *Standard header/footer Acpth: *NONE

Passed Pgm Par

? File/*FIELD Access path/Field/Array Seq Ctx Ctx

*BOTTOM INSTRUCTION FLD

FLD: One parameter per field

RCD: One parameter for all fields

KEY: One parameter for key fields only

9/25/09 10:28:25

A1

SEL: Z-Parameter details X-Object details D-Delete parameter N-Narrative F3=Exit F5=Reload F22=File locks F23=More options

**All fields ** 9/25/09 9:56:57 Create new fields to hold command key A1 DISPLAY FIELDS Field reference file . : *NONE (*ZERO) (*BLANK) Length Field name Field usage Field name Type REF Cmd CmdKey text - Add mode TXT 78 AVTX USR CmdKey text - Change mode TXT REF AWTX USR 78 NBR 5.0 ACNB ATR customer age CDE 6 AHCD CDE customer code TXT AGTX ATR 25 customer name C22E_245 (2) atr TXT TXT 25 ALTX ATR C22E_245 (2) DRV field NBR 5.0 AHNB DRV C22E_245 (2) key CDE CDE 6 ATCD CDE C22E_245 (3) key CDE CDE 6 AUCD CDE C22E_245 atr 1 STS STS AIST ATR C22E_245 atr 1 WRK STS 1 AJST USR REF

25

25

AJTX

AKTX

ATR

USR

SEL: P-Parameters, F-Function, N-Narrative.

C22E_245 atr 2 TXT

C22E_245 atr 2 WRK

Z-Details, R-REF field, U-Usage, L-Locks.

F3=Exit F5=Reload F10=Define field F11=Unreferenced fields

 TXT

TXT

REF

9/25/09

PA1

9:57:36

```
Function name . . : Edit Conf 1
                                                Tupe: : Edit file
                                                Acoth : Retrieval index
Received by file. : Conf 1
Header/footer . . : *STD SCREEN HEADINGS OPT1 <-Explicitly selected
OPTION
                              SEL
                                    VALID VALUES
Create record \dots \dots 
                                    ( <u>Y-Yes</u>, N-No )
                                    ( <u>Y-Yes,</u> N-No )
Change record . . . . . :
                                    ( Y-Yes, N-No )
Delete record . . . . . :
Dynamic program mode . . . :
                                    ( Y-Yes, <u>N-No</u> )
Subfile selection . . . :
                                    ( <u>Y-Yes</u>, N-No )
Confirm prompt . . . . . :
                                    ( <u>Y-Yes</u>, N-No )
Initial value for confirm :
                               М
                                    ( M-MDLVAL, Y-Yes, N-No )
Commit control . . . . . :
                               N
                                    ( M-Master, S-Slave, <u>N-None</u> )
                               M
                                    ( M-MDLVAL, <u>A-Action_bar,</u> D-DDS_menubar )
If action bar, what type? :
Generation mode . . . . :
                                    ( M-MDLVAL, <u>D-DDS</u>, S-SQL, A-ACPVAL )
                                                                           More...
```

Edit Conf 1

key .

Type options, press Enter. 4=Delete

upt	key	atr
_		
_		
-		
-		
-		
-		
_		
_		
_		

*BTMIN

```
EDIT ACTION DIAGRAM
                          Add code to "Initialize program" to set
                                     field values...
FIND=>
                                                         Lurt Conf 1
     > USER: Initialize program
                                                                                  〈〈〈
       LCL.CmdKey text - Add mode = CON.F3=Exit
                                                      F9=Change
       LCL.CmdKey text - Change mode = CON.F3=Exit
                                                         F9=Add
                             ...and add code to "Initialize subfile
                            header" to call EXCUSRSRC function...
 EDIT ACTION DIAGRAM
                                             TEMKOUISUM CONT 1
                                    EUIL
FIND=>
                                                         Edit Conf 1
     > USER: Initialize subfile header
       . -CASE
       |-PGM.*Program mode is *ADD
        Set Bottom Instruction - *Standard header/footer
                                                                                  ///
       |-*OTHERWISE
                                                                                  <<<
        Set Bottom Instruction - *Standard header/footer
                                                                                  〈〈〈
        '-ENDCASE
                                                                                  〈〈〈
```

Edit Conf 1

FIND=> Edi

> USER: Initialize subfile header

. --

<<<

```
EDIT ACTION - FUNCTION DETAILS
```

Function file : *Standard header/footer Function. . . : Set Bottom Instruction

Obj

IOB Parameter Use Typ Ctx Object Name

I \star BOTTOM INSTRUCTION FLD <u>L</u>CL <u>CmdKey text - Change mode</u>

F3=Exit F5=Reload F9=Edit parms

F10=Default parms F12=Previous F15=Undefined parms only

key .

Type options, press Enter. 4=Delete

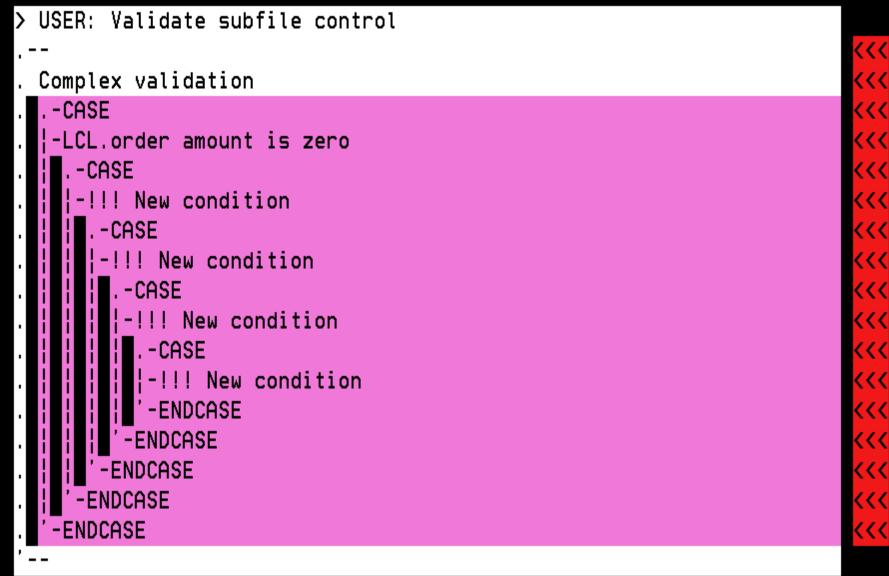
Opt key atr _ ABCDEF <u>123456</u> _ GHIJKL <u>789012</u>

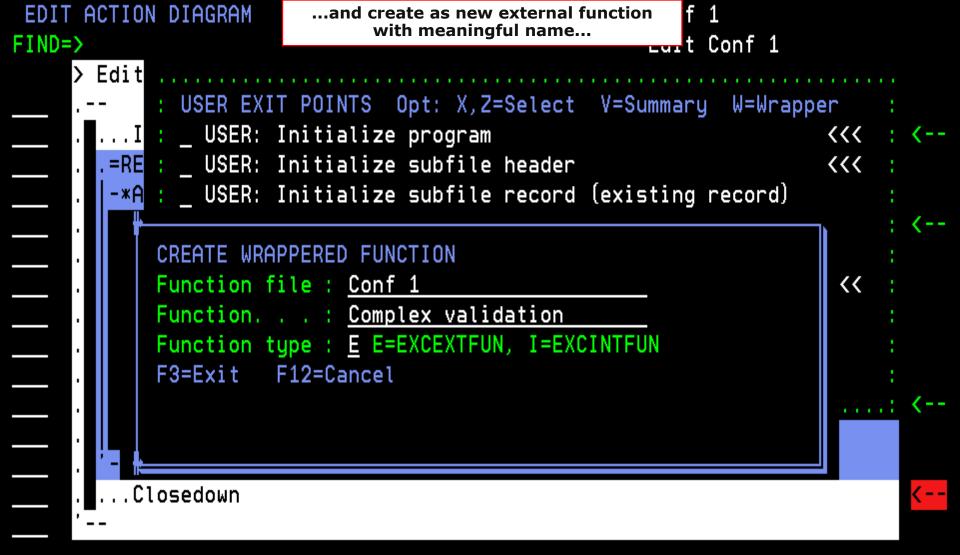
Wrappering Action Diagram code

- Re-use existing code fragments
- Minimize testing
- Enable external access to common validation routines
 - Available to non-2E programs
- Reducing duplication, work, errors
- Preparation for Web Services, SOA etc.



Lurt Conf 1





EDIT FUNCTIONS

HEWRO0190M

File name : Con	f 1	** 1S7	LEVEL	жж
-----------------	-----	--------	-------	----

Function	Function type	Access path
Change Conf 1	Change object	Update index
Complex validation	Execute external function	*NONE
Conf 1 srvpgm	Service program	*NONE
Create Conf 1	Create object	Update index
Delete Conf 1	Delete object	Update index
Edit Conf 1	Edit file	Retrieval index
eef	Execute external function	*NONE
Select Conf 1	Select record	Retrieval index

More...

SEL: Z=Details P=Parms F=Action diagram S=Device D=Delete O=Open
T=Structure A=Access path G/J=Generate function H=Generate HTML ...
F3=Exit F5=Reload F7=File details F9=Add functions F23=More options
F11=Next View F17=Services F21=Copy *Template function

Complex validation -

Gen objs : 1 Total : 1		references	lodel .: HEWR00190M Level .: 001
Object: Complex validat		er . : Conf 1	
	Include inacti		ude sys objs: <u>*YES</u>
	r: <u>*ANY</u> Reas		ent objs only: <u>*YES</u>
Object:	rgp	e:	
2=Edit	Delete object	5=Display 8=Detai	ls 10=Action diagram
13=Parms 14=GEN batch	•	15=GEN interactive	16=Y2CALL
Opt Object	Typ Atr		Lvl Reason Wrn
Complex validation	FUN RP4	Conf 1	000 *OBJECT
			Bottom
F3=Exit F5=Refresh	F9=Command line	F12=Previous	F15=Top level
F16=Build model list	F21=Print list	F22=File locks	F23=More options
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Simple CA 2E tips

- Option Y against a function to invoke Y2CALL
- F11 from EDIT FUNCTIONS to display
 - Source member names
 - Function types & attributes
 - Internal surrogate numbers
- Function type abbreviations
 - EEF instead of EXCEXTFUN or "Execute External Function"
 - SP
 - WS
 - **–** ...



Simple CA 2E tips

- Start using ILE (RPGIV or COBOL ILE generator)
 - No-fuss conversion
 - RPG/400 language has been 'stabilized' for several years
 - New features may only be available for ILE
 - New string-handling BIF's
 - Ability to modularize code better
 - Already Web Services is only available for ILE
- Upgrade to Release 8.5



Simple CA 2E tips

- Look into using CA 2E Web Option for web-enablement
 - Same development team as CA 2E tight integration
 - Same look-and-feel
 - No need to learn Java, .NET, ASP, JSP...
 - Runtime is free!
 - Demo generator licenses may be available
 - Contact Bill Hunt for details (william.hunt@ca.com)



YCVTSPLF

- 'Perfect' for your applications
 - Full-featured reports
 - Ad-hoc queries
 - Print to web
- Also good for sending job logs to CA Support
- Link with Web Option to create/display PDF's on page
- De-licensed command (Free! Free!)



YWRKF

- F8 to display SQL-equivalent statement
- F16 to display RRN
- Record selection
 - EQ (Equals to length of text)
 - EX (Equals to length of field)
- F16 from record selection screen
 - Toggle inclusive/exclusive record selection by field



YPDDAMI

Work with File - Multi record display

File. . . . : HEWR00190G/UUA1REP

Member . : UUA1REP

2 Window shift: 75

Window . . : 1 Record no. : Access : *ARRIVAL *SELECT

8=Details 5=Update C=Copy D=Delete R=Reinstate

key atr

GHIJKL 789012

Function key not allowed.

Work with File - Select details

File. . . : HEWRO0190G/UUA1REP

UUA1REP Member . :

Scan limit (records): 99 (Blank = no limit)

Heading

Conf 1

key

atr

EXCLUSIVE SELECTION

EQ/X NE G/LT G/LE E/NF CT NC

Value Length

FORMAT: FA1RECE

<u>EX G</u>

6

6

Ignore case. . . . : \underline{N} (Y,N)

CA 2E Web Services Support

Deployment tip

 If parameter interface does not change, you can just recompile the *SRVPGM, without having to redeploy the web service.

Deployment problems

- Check you have *IOSYSCFG and *ALLOBJ special authority.
- Try deploying through the IBM GUI first.

Runtime troubleshooting

- Check your WS's library list.
- Copy the target *MODULE to a *PGM and call it in the green screen (using WS's library list).



Upgrading/Installing?

- Talk to CA Support first
 - Be warned of any 'gotchas'.
 - Forewarned is forearmed.
- Read the documentation
 - Support tell us that many upgrade problems come from not following documented steps



Use the CA Forums

- https://communities.ca.com/web/ca-plex-ca-2e-global-usercommunity/message-board/-/message_boards
- Multiple CA 2E (and CA Plex!)-related forums
- Learn from (and help) other CA 2E users
- Subscribe to categories or threads that you like
 - Convenient email announcements
- Ideas (enhancements)
 - Submit
 - Vote
 - Comment



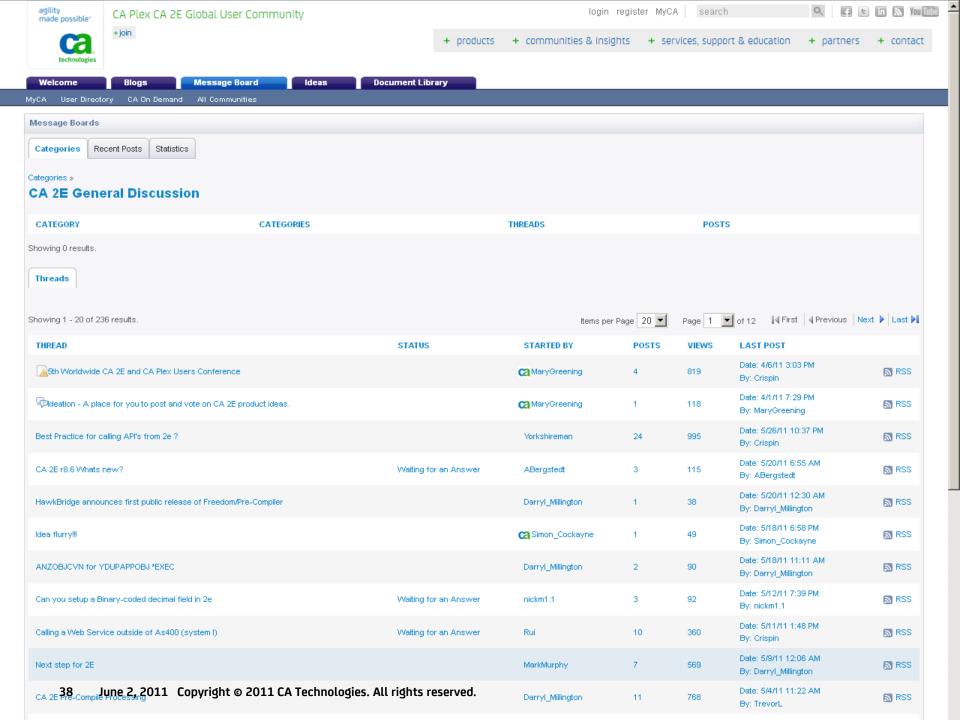


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- Knowledge docs
- Compatibility Matrix (2E vs IBM OS releases)
- And plenty more...

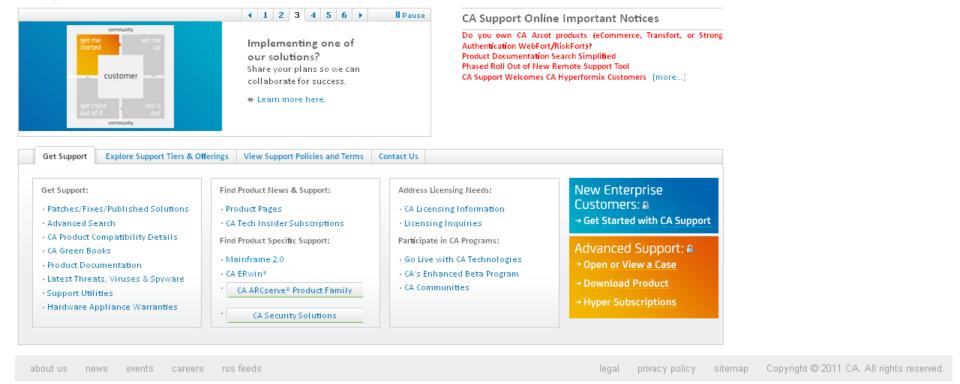




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Acquired Products Support

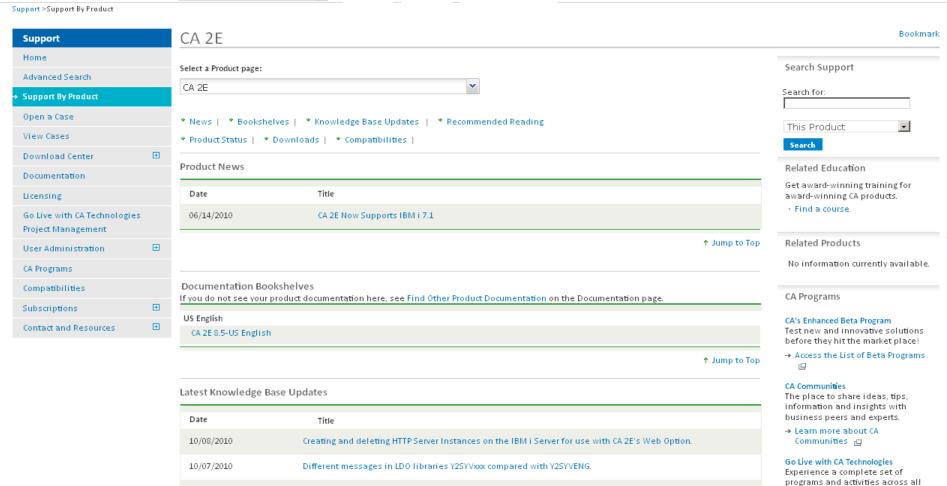
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CA 2E Platform Compatibility Matrix for Support Releases

YCVTSPLF error CPFA0A9

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Knowledge Base Article

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Tech Document

2E Family

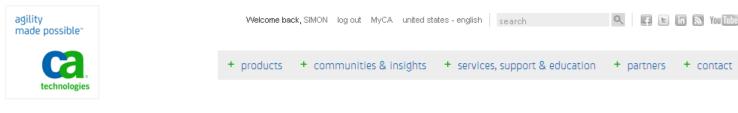
Title: CA 2E Platform Compatibility Matrix for Support Releases

IBM i OS, i5/OS and OS/400

	IBM's support policy see http://www-304.ibm.com/jct01004c/systems/support/i/planning/software/i5osschedule.html . See the Notes on Operating System Compatibility section at the end of this document for information on specific OS releases.								
	V7.1 *	V6R1	V5R4	V5R3 ⁵	V5R2	V5R1			
End of IBM Support	Not Announced	Not Announced	Not Announced	April 30, 2009	April 30, 2007	September 30, 2005			
8.5									
2E Base Product	Υ	Y	Y	Y 1	N	N			
Toolkit (1E)	Y	Y	Y	Υ	N	N			
Web Option	Υ	Υ	Υ	Υ	N	N			
CM Option	Υ	Υ	Υ	Υ	N	N			
Translator Option	Y	Y	Y	Y	N	N			
The Web Services support in r8.5 requires V5R4, V6R1 or V7.1.									
8.1SP2									
2E Base Product	Y	Y 6	Y	Y 5	Y	Y			
Toolkit (1E)	Υ	Υ	Υ	Υ	Υ	Υ			
Web Option	Υ	Υ	Υ	Υ	Υ	Υ			
EJB Option ²	N	N	N	N	N	N			
CM Option ⁴	Y	Y 4	Y	Υ	Υ	Y			
Translator	Υ	Y	Υ	Υ	Υ	Υ			



ttp://www.ca.com/us/products/documents/{0F9F9413-828E-41BD-822E-0B89A212DDAC}.aspx



All Insights and Documents — CA 2E

Insights

Recorded Webcasts

- Application Lifecycle Management MatchPoint and CA Plex r6.1
- Automated Regression Testing for CA Plex and CA 2E
- CA 2E Modernization M3 Version 2.0
- CA Encryption Key Management: Automate and Protect Your Critical Encryption Key Databases
- CA Plex Model Objects and Metacode for CodeJock Toolbar
- . CA Plex .NET Client Futures Part 1
- . CA Plex .NET Client Futures Part 2
- CA Plex Upgrade Study
- . Dynamically Securing Your CA Plex Applications
- . CA Encryption Key Management: Automate and Protect Your Critical Encryption Key Databases
- Introduction to CA 2E Change Management Option
- . Menu System for CA Plex Applications
- . Result Sets with Web Services with CA 2E r8.5
- . The Upgrade Wizard for CA Plex
- . WebClient 2.0 for CA Plex
- . What's New with CA 2E Change Management r8.5

Documents

Product Briefs

- CA 2E Product Brief (751 KB pdf)
- . CA Plex r6.1 Product Brief (727 KB pdf)

Technology Partnerships

. CA Plex and CA 2E Sales, Services, Technology and Education Partners



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1	Document Title	Document ID	Release	Download
	Administration Guide	A00486-1E	8.5	PDF (1.38MB)
	Building Access Paths	A00487-1E	8.5	PDF (839.62KB)
	Building Applications	A00488-1E	8.5	PDF (8.89MB)
	Command Reference Guide	A00489-1E	8.5	PDF (2.48MB)
	Defining a Data Model	A00490-1E	8.5	PDF (2.06MB)
(Generating and Implementing Applications	A00491-1E	8.5	PDF (2.39MB)
	Implementation Guide	A00492-1E	8.5	PDF (740.66KB)
	Installation Guide	A00493-1E	8.5	PDF (616.29KB)
F	Readme	A00494-1E	8.5	HTML (11.88KB)
	Release Notes	A00495-1E	8.5	PDF (4.30MB)
	Standards Guide	A00496-1E	8.5	PDF (6.10MB)
	Toolkit Concepts Guide	A00497-1E	8.5	PDF (1.61MB)
	Toolkit Reference Guide	A00498-1E	8.5	PDF (21.91MB)

