

# CA 2E Tips & Techniques

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**CA 2E Development Team**

Session 6B  
Thursday June 2<sup>o</sup> 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

## EDIT FUNCTIONS

NEW FUNCTION

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

| ? 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 | Define screen format | 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

EDIT SCREEN FORMAT DETAILS

NEW SCREEN

Format . . . . . : Screen footer 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    | A   |     |    |
| *COMMAND KEY TEXT 1     | FTR  | NAR | 0   |     | 78     | *CMDTX1    | A   |     |    |
| *COMMAND KEY TEXT 2     | FTR  | NAR | 0   |     | 78     | *CMDTX2    | A   |     |    |
| *SFLSEL TEXT 1          | FTR  | NAR | 0   |     | 78     | *SELTX1    | A   |     |    |
| *SFLSEL TEXT 2          | FTR  | NAR | 0   |     | 78     | *SELTX2    | A   |     |    |
| *SFLSEL PROMPT TEXT     | FTR  | NAR | 0   |     | 78     | *SELPMT    | A   |     |    |
| *ACTION BAR CHOICE AREA | FTR  | NAR | 0   |     | 78     | *ABOCHCARA | A   |     |    |
| *ACTION BAR DIVIDER     | FTR  | NAR | 0   |     | 78     | *ABODVD    | A   |     |    |
| *WINDOW TITLE           | FTR  | NAR | 0   |     | 25     | *WDWTTL    | A   |     |    |
| *TOP INSTRUCTION1       | FTR  | NAR | 0   |     | 78     | *TOPIN1    | 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

...and add \*BOTTOM INSTRUCTION field instead...

A1

9/25/09

9:51:08

EDIT SCREEN FORMAT DETAILS

NEW INSTRUCTION

Format . . . . . : Screen footer 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    | A   |     |    |
| — *BOTTOM INSTRUCTION | FTR  | NAR | 0   | 0   | 78     | *BTMIN     | A   |     |    |
| — *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



\*PROGRAM

\*PGMMOD

DD/MM/YY HH:MM:SS

\*STD SCREEN HEADINGS OPT1

...so it looks like this...

\*BTMIN

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 F11=Next View F17=Services F21=Copy \*Template function

```
Columns . . . : 6 | ...and add code like this... HEWR00190G/QRPGLESRC
SEU==> _____ UUFSUFR
***** Beginning of data *****
0001.00
0001.01 * Set Bottom Instruction
0001.02
0002.00 * ZZBMI is the *BOTTOM INSTRUCTION screen field
0003.00
0004.00 C          MOVEL      #IBMI          ZZBMI
0005.00
***** End of data *****
```

...and add \*BOTTOM INSTRUCTION as an  
input parameter

A1

9/25/09 10:28:25

EDIT FUNCTION PARAMETERS

NEW FUNCTION

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 |
| █ | *FIELD      | *BOTTOM INSTRUCTION     | FLD |     |
| - |             |                         |     |     |
| - |             |                         |     |     |
| - |             |                         |     |     |
| - |             |                         |     |     |
| - |             |                         |     |     |
| - |             |                         |     |     |
| - |             |                         |     |     |
| - |             |                         |     |     |
| - |             |                         |     |     |

Values

FLD: One parameter per field  
RCD: One parameter for all fields  
KEY: One parameter for key fields only

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

DISPLAY FIELDS

Field reference file . : \*NONE

|                           |      | (*ZERO) |        | (*BLANK)   |             |
|---------------------------|------|---------|--------|------------|-------------|
| ? Field name              | Type | REF     | Length | Field name | Field usage |
| Cmd                       |      |         |        |            |             |
| CmdKey text - Add mode    | TXT  |         | 78     | AVTX       | USR         |
| CmdKey text - Change mode | TXT  | REF     | 78     | AWTX       | USR         |
| customer age              | NBR  |         | 5.0    | ACNB       | ATR         |
| customer code             | CDE  |         | 6      | AHCD       | CDE         |
| customer name             | TXT  |         | 25     | AGTX       | ATR         |
| 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  |         | 1      | AIST       | ATR         |
| C22E_245 atr 1 WRK        | STS  | REF     | 1      | AJST       | USR         |
| C22E_245 atr 2 TXT        | TXT  |         | 25     | AJTX       | ATR         |
| C22E_245 atr 2 WRK        | TXT  | REF     | 25     | AKTX       | USR         |

SEL: P-Parameters, F-Function, N-Narrative.  
Z-Details, R-REF field, U-Usage, L-Locks.  
F3=Exit F5=Reload F10=Define field F11=Unreferenced fields

# EDIT FUNCTION OPTIONS

NEWRO1001

Function name . . . : Edit Conf 1                      Type. : Edit file  
Received by file. : Conf 1                      Acpth : Retrieval index  
Header/footer . . . : \*STD SCREEN HEADINGS OPT1 <-Explicitly selected

| OPTION                       | SEL      | VALID VALUES                                      |
|------------------------------|----------|---|
| Create record . . . . .      | <u>Y</u> | ( <u>Y</u> -Yes, N-No )                           |
| Change record . . . . .      | <u>Y</u> | ( <u>Y</u> -Yes, N-No )                           |
| Delete record . . . . .      | <u>Y</u> | ( <u>Y</u> -Yes, N-No )                           |
| Dynamic program mode . . . . | <u>N</u> | ( <u>Y</u> -Yes, <u>N</u> -No )                   |
| Subfile selection . . . . .  | <u>Y</u> | ( <u>Y</u> -Yes, N-No )                           |
| Confirm prompt . . . . .     | <u>Y</u> | ( <u>Y</u> -Yes, N-No )                           |
| Initial value for confirm :  | <u>M</u> | ( M-MDLVAL, Y-Yes, <u>N</u> -No )                 |
| Commit control . . . . .     | <u>N</u> | ( M-Master, S-Slave, <u>N</u> -None )             |
| If action bar, what type? :  | <u>M</u> | ( M-MDLVAL, <u>A</u> -Action_bar, D-DDS_menubar ) |
| Generation mode . . . . .    | <u>A</u> | ( M-MDLVAL, <u>D</u> -DDS, S-SQL, A-ACPVAL )      |

More...

F3=Exit    F5=Select header/footer    F10=All options

Edit Conf 1

key . \_\_\_\_\_

Type options, press Enter.  
4=Delete

| Opt | key   | atr   |
|-----|-------|-------|
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |
| -   | _____ | _____ |

+

EDIT ACTION DIAGRAM

Add code to "Initialize program" to set field values...

f 1

Edit Conf 1

FIND=>

> USER: Initialize program

.--

. LCL.CmdKey text - Add mode = CON.F3=Exit F9=Change

. LCL.CmdKey text - Change mode = CON.F3=Exit F9=Add

.--

<<<<  
<<<<  
<<<<

EDIT ACTION DIAGRAM

...and add code to "Initialize subfile header" to call EXCUSRSRC function...

Edit

NEWROOT150M Conf 1

Edit Conf 1

FIND=>

> USER: Initialize subfile header

.--

. -CASE

. -PGM.\*Program mode is \*ADD

. Set Bottom Instruction - \*Standard header/footer \*

. -\*OTHERWISE

. Set Bottom Instruction - \*Standard header/footer \*

. -ENDCASE

.--

<<<<  
<<<<  
<<<<  
<<<<  
<<<<  
<<<<  
<<<<



FIND=&gt;

Edit Conf 1

&gt; 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 *BOTTOM INSTRUCTION | FLD     | <u>CL</u> <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> |

# Wrapping 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.



FIND=>

> Edit

```
: USER EXIT POINTS Opt: X,Z=Select V=Summary W=Wrapper :  
:_ USER: Initialize program <<< :  
:_ USER: Initialize subfile header <<< :  
:_ USER: Initialize subfile record (existing record) :  
:_ USER: Initialize subfile record (new record) :  
:_ CALC: Subfile control function fields :  
:_ W USER: Validate subfile control <<< :  
:_ USER: Validate subfile record fields :  
:_ CALC: Subfile record function fields :  
:_ USER: Validate subfile record relations + :  
. . . . . :  
  
NDWHILE  
HILE  
osedown
```

FIND=&gt;

&gt; Edit

```
.....: USER EXIT POINTS  Opt: X,Z=Select  V=Summary  W=Wrapper  :  
--: _ USER: Initialize program <<< : <--  
...I: _ USER: Initialize subfile header <<< :  
.=RE: _ USER: Initialize subfile record (existing record) :  
-*A: : <--  
: CREATE WRAPPED FUNCTION :  
: Function file : Conf 1 << :  
: Function. . . : Complex validation :  
: Function type : E E=EXCEXTFUN, I=EXCINTFUN :  
: F3=Exit F12=Cancel :  
: : <--  
: :  
...Closedown <--
```

## EDIT FUNCTIONS

HEWR00190M

File name. . . : Conf 1

\*\* 1ST LEVEL \*\*

| ? Function         | Function type             | Access path     |
|--------------------|---------------------------|-----------------|
| Change Conf 1      | Change object             | Update index    |
| Complex validation | Execute external function | *NONE           |
| Conf 1 srvgpm      | 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  
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 F3=Exit F5=Reload F7=File details F9=Add functions F23=More options  
 F11=Next View F17=Services F21=Copy \*Template function

FIND=&gt;

&gt; USER: Validate subfile control

,--

. Complex validation

. Complex validation - Conf 1 \*

,--

&lt;&lt;&lt;

&lt;&lt;&lt;

&lt;&lt;&lt;



Gen objs : 1 ...which can be checked for  
Total : 1 usages/references... Model . : HEWR00190M  
Level . : 001  
Object: Complex validation Owner . : Conf 1  
Type : FUN Attr: RP4 Include inactive code: \*YES Exclude sys objs: \*YES  
Scope : \*NEXT Filter: \*ANY Reason: \*FIRST Current objs only: \*YES  
Object: \_\_\_\_\_ Type: \_\_\_\_\_

2=Edit 3=Copy 4=Delete object 5=Display 8=Details 10=Action diagram  
13=Parms 14=GEN batch 15=GEN interactive 16=Y2CALL

| Opt | Object             | Typ | Atr | Owner  | 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](mailto:william.hunt@ca.com))

- ‘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! Free!)

- 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 Confirm:         
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

F3=Exit F6=Print F7=Select F9=Add record F10=Start of file F24=More

SELECT \* FROM HEWR00190G/UUA1REP WHERE A1AICD LIKE 'G%'

YPDDAMI

Work with File - Multi record display

File. . . . : HEWR00190G/UUA1REP Confirm:         
Member . . : UUA1REP 2 Window shift: 75  
Window. . . :    1 Record no. :            Access : \*ARRIVAL  
8=Details 5=Update C=Copy D=Delete R=Reinstate  
\*RRN key atr  
\_ 000000001 ABCDEF 123456  
\_ 000000002 GHIJKL 789012

F3=Exit F6=Print F7=Select F9=Add record F10=Start of file F24=More  
Function key not allowed.



Work with File - Select details

File. . . . : HEWR00190G/UUA1REP

Member . : UUA1REP

EXCLUSIVE SELECTION

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

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

Heading

Length

Value

Conf 1

FORMAT: FA1RECE

key

6

EX

G

atr

6

Ignore case. . . . : N (Y,N)

F3=Exit    F5=Format    F11=Reset    F14=Field names    F16=Selection type

- 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-user-community/message-board/-/message\\_boards](https://communities.ca.com/web/ca-plex-ca-2e-global-user-community/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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|---|-----------------------|--|-------|-------|---|
|  5th Worldwide CA 2E and CA Plex Users Conference                    |                       |  MaryGreening     | 4     | 819   | Date: 4/6/11 3:03 PM<br>By: Crispin <a href="#">RSS</a>             |
|  Ideation - A place for you to post and vote on CA 2E product ideas. |                       |  MaryGreening     | 1     | 118   | Date: 4/1/11 7:29 PM<br>By: MaryGreening <a href="#">RSS</a>        |
| Best Practice for calling API's from 2e ?   |                       | Yorkshireman   | 24    | 995   | Date: 5/26/11 10:37 PM<br>By: Crispin <a href="#">RSS</a>           |
| CA 2E r8.6 Whats new?   | Waiting for an Answer | ABergstedt   | 3     | 115   | Date: 5/20/11 6:55 AM<br>By: ABergstedt <a href="#">RSS</a>         |
| HawkBridge announces first public release of Freedom/Pre-Compiler   |                       | Darryl_Millington  | 1     | 38    | Date: 5/20/11 12:30 AM<br>By: Darryl_Millington <a href="#">RSS</a> |
| Idea flurry!!!  |                       |  Simon_Cockayne | 1     | 49    | Date: 5/18/11 6:58 PM<br>By: Simon_Cockayne <a href="#">RSS</a>     |
| ANZOBJCVN for YDUPAPPOBJ *EXEC  |                       | Darryl_Millington  | 2     | 90    | Date: 5/18/11 11:11 AM<br>By: Darryl_Millington <a href="#">RSS</a> |
| Can you setup a Binary-coded decimal field in 2e  | Waiting for an Answer | nickm1.1   | 3     | 92    | Date: 5/12/11 7:39 PM<br>By: nickm1.1 <a href="#">RSS</a>           |
| Calling a Web Service outside of As400 (system I)   | Waiting for an Answer | Rui  | 10    | 360   | Date: 5/11/11 1:48 PM<br>By: Crispin <a href="#">RSS</a>            |
| Next step for 2E  |                       | MarkMurphy   | 7     | 569   | Date: 5/9/11 12:06 AM<br>By: Darryl_Millington <a href="#">RSS</a>  |
| CA 2E Pre-Compile Processing  |                       | Darryl_Millington  | 11    | 768   | Date: 5/4/11 11:22 AM<br>By: TrevorL <a href="#">RSS</a>            |

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| 08/11/2010                 | <a href="#">Configuring Web Option for your own System I Sign On screen.</a>                                     |
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### Tech Document

**Title:** CA 2E Platform Compatibility Matrix for Support Releases

| 2E Family                 | IBM i OS, i5/OS and OS/400<br>CA's policy is to support an IBM i OS version for at least as long as IBM supports that release of the operating system. For details on IBM's support policy see <a href="http://www-304.ibm.com/ict01004c/systems/support/i/planning/software/i5oschedule.html">http://www-304.ibm.com/ict01004c/systems/support/i/planning/software/i5oschedule.html</a> . 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 <sup>5</sup> | V5R2           | V5R1               |
| <b>End of IBM Support</b> | Not Announced   | Not Announced | Not Announced | April 30, 2009    | April 30, 2007 | September 30, 2005 |
| <b>8.5</b>                |   |               |               |                   |                |                    |
| 2E Base Product           | Y   | Y             | Y             | Y <sup>1</sup>    | N              | N                  |
| Toolkit (1E)              | Y   | Y             | Y             | Y                 | N              | N                  |
| Web Option                | Y   | Y             | Y             | Y                 | N              | N                  |
| CM Option                 | Y   | Y             | Y             | Y                 | N              | N                  |
| Translator Option         | Y   | Y             | Y             | Y                 | N              | N                  |

<sup>1</sup> The Web Services support in r8.5 requires V5R4, V6R1 or V7.1.**8.1SP2**

|                         |   |                |   |                |   |   |
|-------------------------|---|----------------|---|----------------|---|---|
| 2E Base Product         | Y | Y <sup>6</sup> | Y | Y <sup>5</sup> | Y | Y |
| Toolkit (1E)            | Y | Y              | Y | Y              | Y | Y |
| Web Option              | Y | Y              | Y | Y              | Y | Y |
| EJB Option <sup>2</sup> | N | N              | N | N              | N | N |
| CM Option <sup>4</sup>  | Y | Y <sup>4</sup> | Y | Y              | Y | Y |
| Translator              | Y | Y              | Y | Y              | Y | Y |

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### Documents

#### Product Briefs

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

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