

**Looking Inside the Developer's Toolkit:  
From STRPDM to RDi  
(Rational Developer for IBM i)**



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**About The Speaker**

With an IT career spanning over 30 years, Charles Guarino has been a consultant for most of them. Since 1995 he has been founder and President of Central Park Data Systems, Inc., a New York area based IBM midrange consulting and corporate training company. In addition to being a professional speaker across the United States and Europe, he is a frequent contributor of technical and strategic articles and webcasts for the IT community. He is a member of COMMON's Speaker Excellence Hall of Fame and also Long Island Software and Technology Network's Twenty Top Techies. In 2015 Charles became the recipient of the Al Barsa Memorial Scholarship Award. Additionally, he serves as a member of COMMON's Strategic Education Team (SET) and is also a past president and monthly Q&A host of LISUG, a Long Island IBM i User's Group [www.lisug.org](http://www.lisug.org).

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## In This Session ...

It was an application developer revolution when IBM first introduced WDSC. However there was a slow adoption rate because of its poor client side performance.

Through the years the product evolved and took a giant step forward when it was taken over by the Rational team. Re-introduced as Rational Developer for i (RDi) it performed significantly better than WDSC.

As the product evolution continued with new functionality the case for not using it becomes weaker and weaker. The name changed to keep pace with the platform itself, morphing into Rational Developer for Power Systems Software (RDP) and now once again RDi.

The current offering easily outperforms and outmaneuvers the PDM and SEU green screen development environments. Studies have shown time and time again significant gains in development and deployment time when using the graphical workbench. NOW is the time for you to step up and code like you never have before.

## ??? WHY ???

- SEU is STABLE at V6.1!!!
- Better Productivity at Every Turn
- Visualizations
- Integrated Tasks
- Integrated Graphical Screen and Report Designer
- Common Tooling Platform
  - Learn once, use many different ways
- New IBM development funds are going into RDi



## **New Terms and Concepts**

- **WDSC vs. RDP vs. RDi**
  - **WDSC support ended in April 2010.**
  - **Syntax support current to V5R4 only**
- **Passport Advantage**
  - **Where you can order and download RDi**
  - **60 day free trial available**
- **Installation Manager**
  - **Separate software product used to download RDi**
  - **Also used to download updates as they are released**
  - **A license is made permanent after you load the activation kit**

## **New Terms and Concepts**

- **Workspace**
  - **Folder where your local settings are stored**
  - **You can use multiple workspaces one at a time**
  - **Recommendation – don't use default setting, create your own**
- **Perspective**
  - **Your current desktop each with its own toolbars**
  - **RSE is a perspective within RDi**
- **LPEX**
  - **Live Parser Extensible Editor**
  - **A Rich UI that significantly outperforms SEU**
  - **The default editor of RDi**

## “Have you tried the modern alternative to PDM?”

- Press F1 for more details!
- Does this annoy you?



## Press F18 – Change Defaults in SEU

- This will suppress ALL informational messages
  - One example is copying one source member to another

```
Parameters or command
==> _____
F3=Exit          F4=Prompt          F5=Refresh          F6=Create
F9=Retrieve      F10=Command entry  F23=More options   F24=More keys
Have you tried the modern alternative to PDM? Press F1 for more details.
```

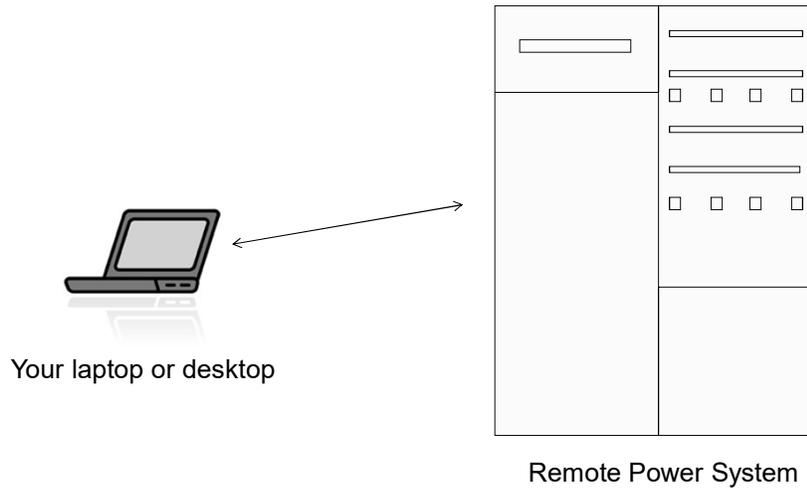
```
Change Defaults
Type choices, press Enter.

Object library . . . . . *SRCLIB  Name, *CURLIB, *SRCLIB
Replace object . . . . . N        Y=Yes, N=No
Compile in batch . . . . . Y        Y=Yes, N=No
Run in batch . . . . . N          Y=Yes, N=No
Save session defaults . . . . . Y    Y=Yes, N=No
Save/Restore option . . . . . 1     1=Single, 2=All
Job description . . . . . QBATCH   Name, *USRPRF, F4 for list
Library . . . . . *LIBL          Name, *CURLIB, *LIBL
Change type and text . . . . . Y    Y=Yes, N=No
Option file . . . . . QAUOOPT     Name
Library . . . . . QGPL           Name, *CURLIB, *LIBL
Member . . . . . QAUOOPT         Name
Full screen mode . . . . . N      Y=Yes, N=No

Log option commands . . . . . N    Y=Yes, N=No
Exit lists on ENTER . . . . . Y    Y=Yes, N=No
Display informational messages N    Y=Yes, N=No
```

## RDi – What it is

- Your desktop or laptop is the LOCAL system
  - The System i is the REMOTE system!

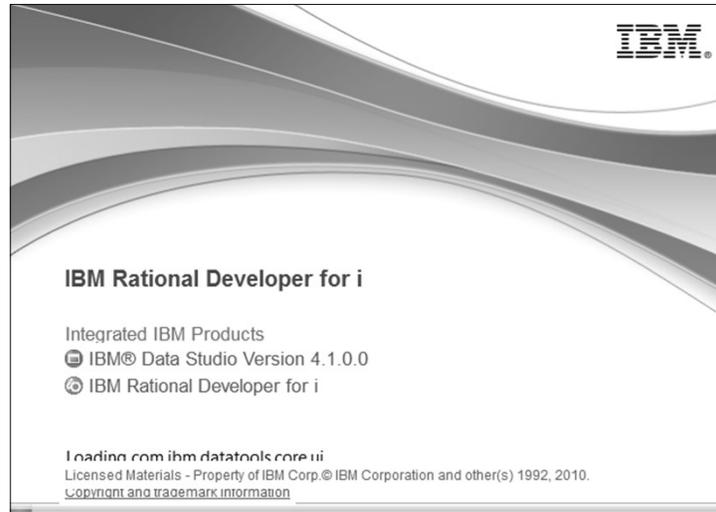


## RDi – What it is NOT

- RDi is NOT a 5250 EMULATOR – but does include one!!!
  - Entering interactive commands such as WRKSPLF will result in an error window appearing



## Google "RDi 9.1 Data Studio"



## Google "Data Studio vs RDi?"

Forum Directory > Rational Cafe > RDi - Rational Developer for i Hub > RDi Forum > RDi vs. Data Studio

4 replies Latest Post - Jan 23 by EdmundReinhardt

 **soulereclipse**  
4 Posts

### RDi vs. Data Studio

Dec 15, 2014 | Tags: data, i, rdi, studio

I have seen several posts on here and would like some clarification (or to at least know I am not the only one going bonkers trying to keep up with IBM's plans). My understanding is, that for the System i, the Data Studio product is incorporated as a part of RDi. There is a lot of documentation for Data Studio and I appreciate that. However, there seems to be a lot of things that don't work when Data Studio is being used to connect to the System i. I have read that this is because the System i version of Data Studio is incorporated with RDi, and therefore should be using RDi for database development on the System i.

I have found some things are easier when using the Database Development perspective of RDi (v 9.1) instead of Data Studio (v 4.1.1) connected to the System i. Not so on some other things. For example. In Data Studio, you can drill down to your schema, right click on the Stored Procedures folder, and there is an option for New Stored Procedure. No such option exists in the RDi version. Another example, the Generate DDL option in RDi for a Stored Procedure on the i, does not generate the Create Procedure, only the actual SQL part of the statement.

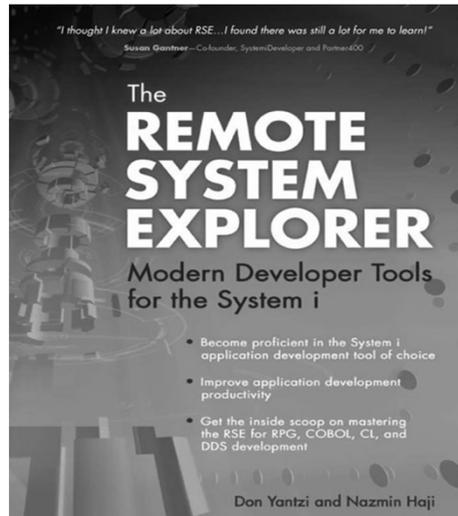
This post is not necessarily an attempt to open a bunch of Service Requests to fix, as it is to vent a little frustration with trying to figure out the best tools for doing database development ON THE SYSTEM i and to get some feedback on whether or not my understanding is correct and if so, some assurance that this is the right place to post issues like above or am I better off doing so in the Data Studio forum?

I appreciate anyone taking the time to read this and to respond.

[Log in to reply.](#)

## One of the best RDP / RDi / RSE resources around

- Although a little dated still regarded as the best value around



## You Tube videos for RDi

Search for "IBM RDi" in YouTube search section

## There is a lot of current information in IBM RDi Hub

### Search for “RDi IBM Rational Developer for i Hub”

The screenshot shows the IBM developerWorks website. The top navigation bar includes 'Technical topics', 'Evaluation software', 'Community', and 'Events'. Below this, there are sub-navigators for 'My home', 'Forums', 'Blogs', 'Communities', 'Profiles', 'Podcasts', 'Wikis', 'Activities', and 'IBM Champion program'. The main content area is titled 'Communities' and features a search bar. Below the search bar, the 'RDi – IBM Rational Developer for i Hub' community is highlighted. The community page includes a description, an overview section with links for 'Recent Updates', 'Members', 'Wiki', 'Blog', and 'Feeds', and a list of tags: 'i, ibmi, power, rational, rational\_business\_developer, rational\_developer, rational\_developer\_i, rdi, rdp'.

## BIG NEWS!!!!

| APAR/RFE                 | Description  |
|--------------------------|--|
| <a href="#">RFE13454</a> | <p>Mac OS X v10.11 support</p> <p>Limitations:</p> <ul style="list-style-type: none"> <li>- bidirectional text is not supported. Screen Designer/Report Designer might give errors with bidirectional text.</li> <li>- syntax checker is not available for ILE/OPM COBOL, ILE/OPM RPG</li> <li>- program verifier is not available for ILE/OPM COBOL, ILE/OPM RPG, DDS</li> <li>- ILE RPG static outline view (the 'Update the Outline view when text is changed in the editor' preference on the ILE RPG preference page is not checked) shows 'An outline is not available'. Use the live outline view (ensure the preference is checked).</li> <li>- Ctrl+Space keyboard shortcut might conflict with system shortcut for Spotlight and not invoke content assist in the editor. Workaround: redefine system shortcut for invoking Spotlight or redefine Eclipse shortcut for invoking content assist.</li> <li>- ILE RPG source information support in Application Diagram is limited and is restricted to being invoked from within the Editor (not from the RSE view) when ILE RPG live outline view is enabled</li> <li>- Access Client Solutions integration (5250 Emulator, Run SQL Scripts and Printer Output actions) requires Legacy Java 6 to be installed on Mac OS X v10.11</li> <li>- Host Connect emulator not available. Access Client Solutions 5250 Emulator is available from Objects subsystem popup menu</li> <li>- Keyboard shortcuts are not the same as documented</li> <li>- Window-&gt;Preferences menu item moved to RDi-&gt;Preferences</li> <li>- Help-&gt;About menu item moved to RDi-&gt;About</li> <li>- Some fields in Source Prompter view are not sized properly</li> <li>- Invoking help from the editor might launch a new browser tab each time</li> <li>- creating an IBM i web service from RPG or COBOL source is not supported</li> <li>- Unable to generate PCML from RPG or COBOL Source</li> <li>- 'Launchpad' can't be opened because it is from an unidentified developer' message appears. Use Ctrl+click or right-click and select Open to be prompted if you want to open it.</li> <li>- On the product image, IBM Installation Manager's Install.app or Userinst.app might give an error message saying they are damaged. Instead, open Terminal and run the corresponding script.</li> <li>- After uninstall, a file might remain in the product install folder. It can be deleted and then the product install folder can be deleted.</li> <li>- limitations of Rational Application Developer components included in RDi</li> <li>- Update Notifier is not supported</li> <li>- other products bundled with RDi might not support Mac OS X 10.11 such as IBM Data Studio</li> <li>- IBM Rational Team Concert Integration for Rational Developer for i extension requires IBM Installation Manager</li> </ul> |

## Midrange.com WDSC-L

[www.archive.midrange.com](http://www.archive.midrange.com) > WDSCI-L

**m** for Business **drange.com**  
**WDSCI-L**  
Mailing List Archive Search

Search for:

[Search Help](#)

Search for **rdi 9.1**. Search results: **rdi : 27570, 9 : 14292, 1 : 50346** Results 1-10 of 62. Search took 0.788 seconds

Sort by: [Relevancy](#) | [Date](#) | [Title](#)

1 2 3 4 5 6 7 Next >

1. Re: **RDI 9.1 -- WDSCI-L [ 34.634%**  
... Info Home » WDSCI-L » April 2014 Re: RDI 9.1 Subject : Re: RDI 9.1 ... Advantage --buck This thread ... Re: RDI 9.1 , (continued) Re: RDI 9.1 , daren Re: RDI 9.1 , Eric ...

- <http://archive.midrange.com/wdsci-l/201404/msg00216.html> (Wed, 30 Apr 2014, 06:45:43 CDT)

## “Out-of-the-box” RSE perspective

- Default settings shown
- Perspective is completely customizable

Remote System Explorer - IBM Rational Developer for i

File Edit Navigate Search Project Data Run Window Help

Remote Systems | vs-Team

- New Connection
- IBM i ...
- Linux ...
- Local ...
- Telnet Only (Experimental) ...
- Unix ...
- Windows ...
- Windows SSH ...
- Windows SSH ...
- Local

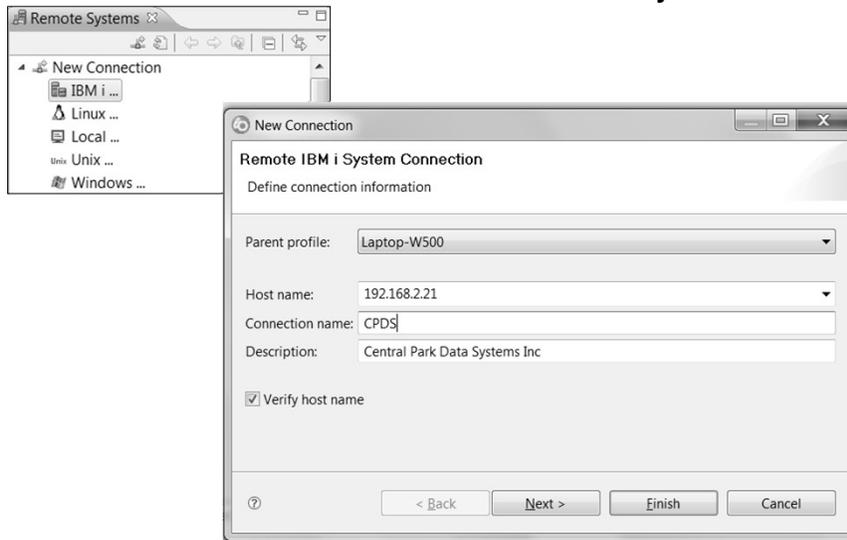
Remote System Details | Tasks | Object Table | Commands Log | Terminals

Properties | Remote Scratchpad

| Property    | Value               |
|-------------|---------------------|
| Name        | New Connection      |
| Number of s | 8                   |
| Type        | An expandable pr... |

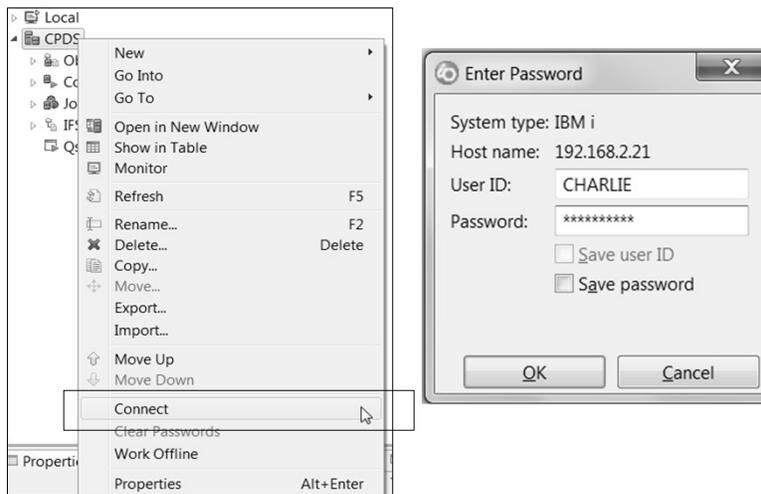
## Creating a new connection to the IBM i

- Connection names can be renamed if necessary



## Connecting to your new connection is very simple

- Right click on Connect
- Same user authority applies while navigating in RDi



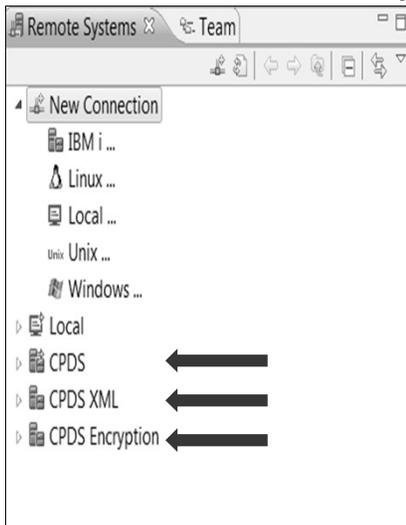
## Verify Connection ensures you are good to go!

- Right click on Objects



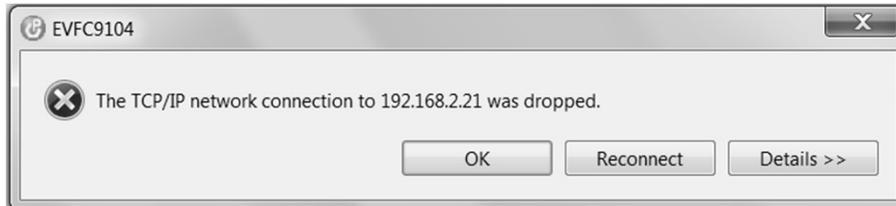
## Multiple Connections to the IBM i

- Each connection is like an active session in IBM i Access
  - Each with it's own library list, job descriptions, filters, etc.



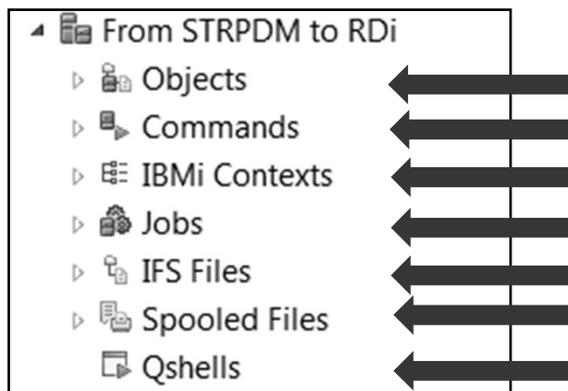
## What happens if the connection drops?

- This is the **NUMBER ONE** asked question!
- RDi has remarkable restartability
- Your environment is stored in your workspace



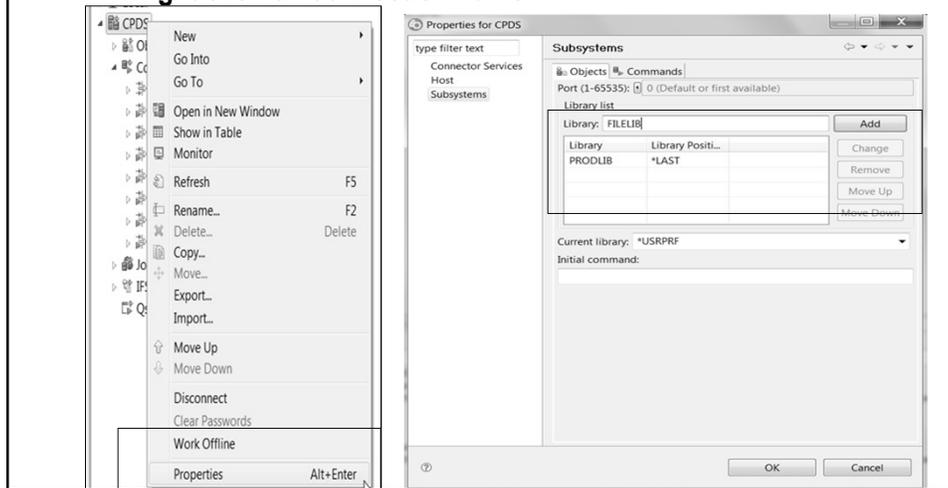
## Connection Subsystems

- Automatically inserted into each connection you create
- Absolutely nothing to do with IBM i subsystems QCTL, QBATCH...



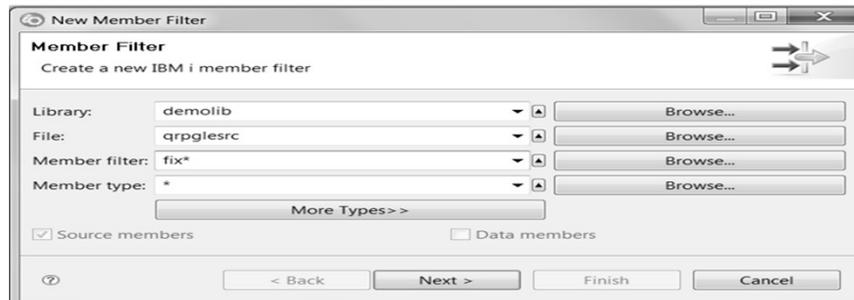
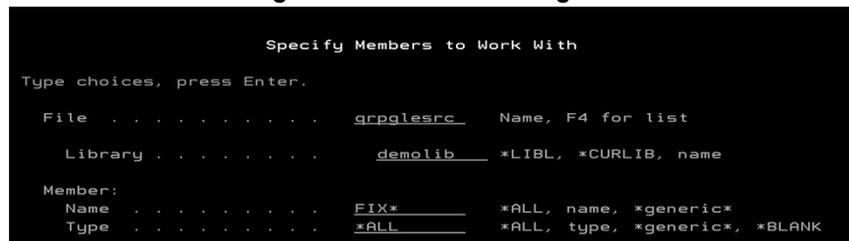
## Setting up your initial connection environment

- Initial library list, current library, initial command to run
  - Initial command helpful for dynamic library lists
  - Right click on connection name



## A FILTER limits what objects appear in your current selection

- You've been using filters in SEU all along



## demolib.qrpglefix is the name chosen for this filter

- Click on any filter and its contents open

The terminal window on the left shows the command prompt 'Work with Members Using PDM'. It displays the current file as 'ORPGLESRC' and library as 'DEMOLIB'. A table of options is shown, including '2=Edit', '3=Copy', '4=Delete', '5=Display', '6=Print', '8=Display description', '9=Save', '13=Change text', and '14=Copy'. Below this is a table of members:

| Opt | Member     | Type  | Text                     |
|-----|------------|-------|--------------------------|
| —   | FIXCUS     | RPGLE | Fixes Customer Master    |
| —   | FIXCUS1    | RPGLE | Update Customer Master   |
| —   | FIXDELACCT | RPGLE | Deleted account purge ad |
| —   | FIXFINCHG  | RPGLE | Fixes finance charges    |
| —   | FIXONHAND  | RPGLE | create adjustment record |
| —   | FIXOPENAR  | RPGLE | Removes zero payment rec |
| —   | FIXOPENOD2 | RPGLE | Adds a message to each o |
| —   | FIXOPENORD | RPGLE | Cancels old orders       |

The file browser on the right shows a tree view of the 'demolib.qrpglefix' filter, which contains several RPGLE files: FIXCUS.rpgle, FIXCUS1.rpgle, FIXDELACCT.rpgle, FIXFINCHG.rpgle, FIXONHAND.rpgle, FIXOPENAR.rpgle, FIXOPENOD2.rpgle, FIXOPENORD.rpgle, FIXQTYAVAL.rpgle, FIXVENDORS.rpgle, and FIXVOUCHER.rpgle.

## RDi respects source member locking

- The reverse situation is also true
  - Source members are NOT locked when downloaded to work offline

The terminal window on the left shows the command prompt 'Edit DEMOLIB/QRPGLESRC'. It displays the beginning of data for a source member, including comments like 'Identify main prototype' and 'secretdata'. The dialog box on the right is titled 'Member Locked' and contains the following text:

Member DEMOLIB/QRPGLESRC(ENCRYPT) on 192.168.2.21 is locked by job QPADEV000B/CHARLIE/479415. Click Display job properties button to view the job properties.

To edit the member, remove all read and write exclusive locks on the member. You can open the member in browse mode or end the job that is locking the member. Ending the job will free the member

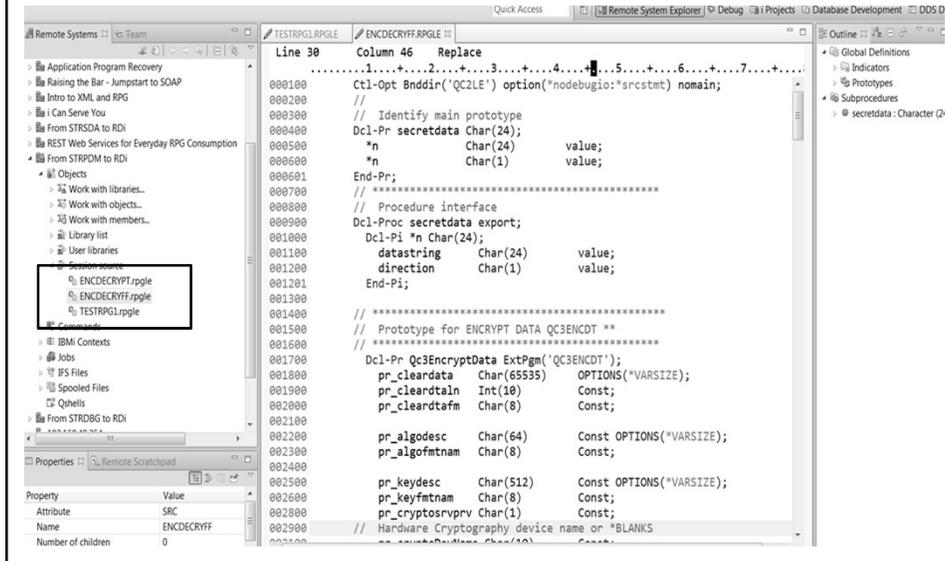
Buttons: Display job properties..., OK, Cancel

Radio buttons:
 

- Open the member in browse mode
- End the job and open the member

## Opening up source member ENCDECYFF in LPEX

- Can select “Open with LPEX” or just double click on member



## Alternate method of opening a source member

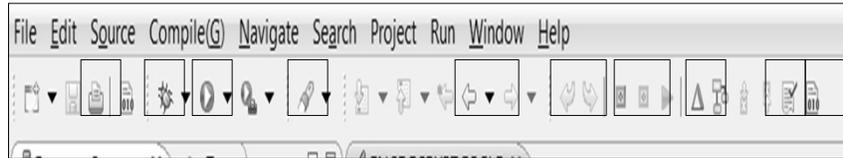
- Don't always need a filter to edit / browse a member
- Can also create a new connection on the fly
- Press CTRL-SHIFT-A to display this window





## Basic navigation

- Navigation Bar changes to match your current perspective

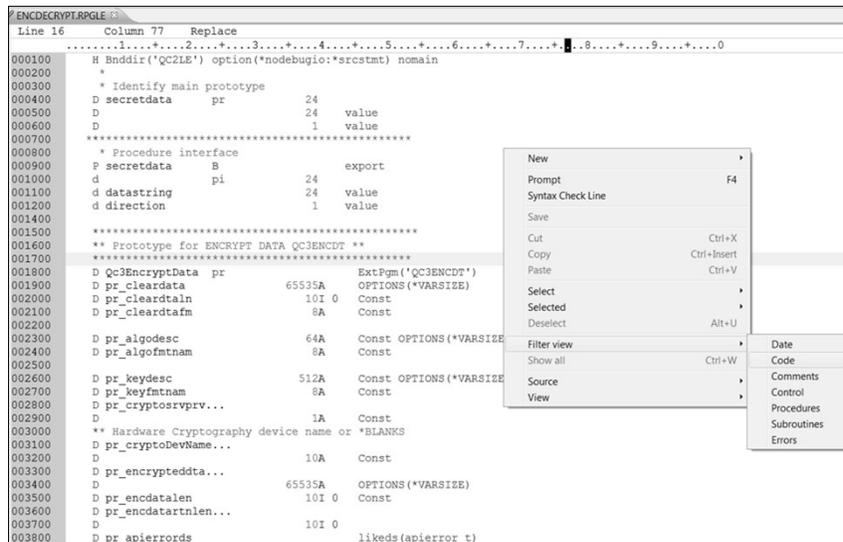


1 2 3 4 5 6 7 8 9 10

- |                   |                                 |
|-------------------|---------------------------------|
| 1) Print          | 6) Undo / Redo                  |
| 2) Debug As       | 7) Record / Playback keystrokes |
| 3) Run As         | 8) Application Diagram Viewer   |
| 4) Search         | 9) Verify Source                |
| 5) Back / Forward | 10) Compile without Prompting   |

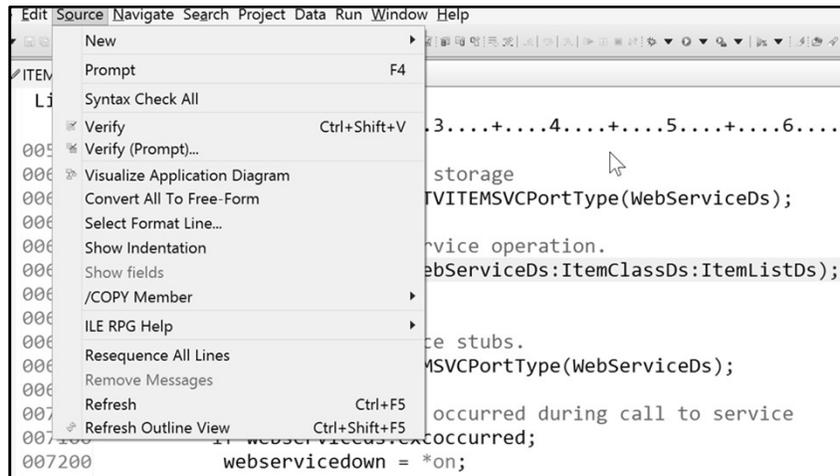
## Source code filtering helps you quickly locate what you need

- Right click anywhere in the source code



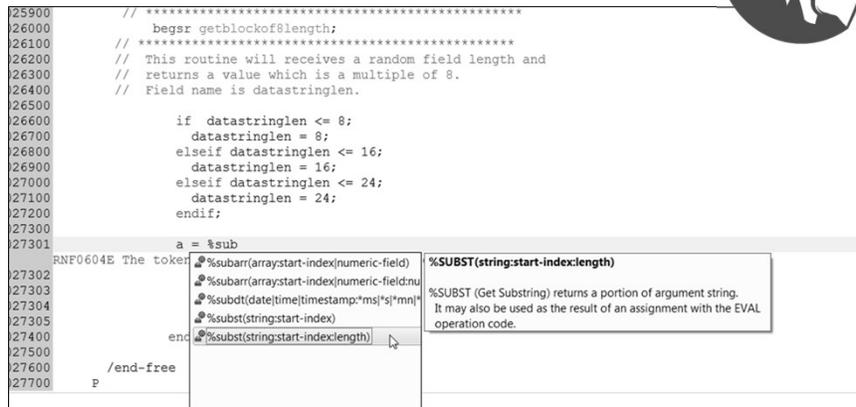
## The Source option

- Provides a lot of source code options



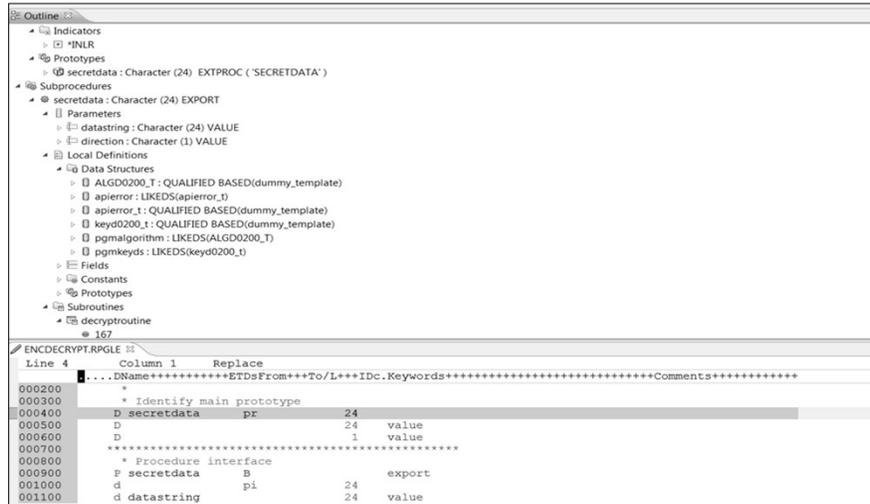
## Content Assist helps you fill in the blanks

- Ideal for built in functions (bifs)
- Type a portion of the bif and press CTRL-SPACE
- Also works with your own procedures



## The Outline view displays all you need to know about a program

- If not visible just type “Outline” in Quick Access



## When you select a block of code other options are available

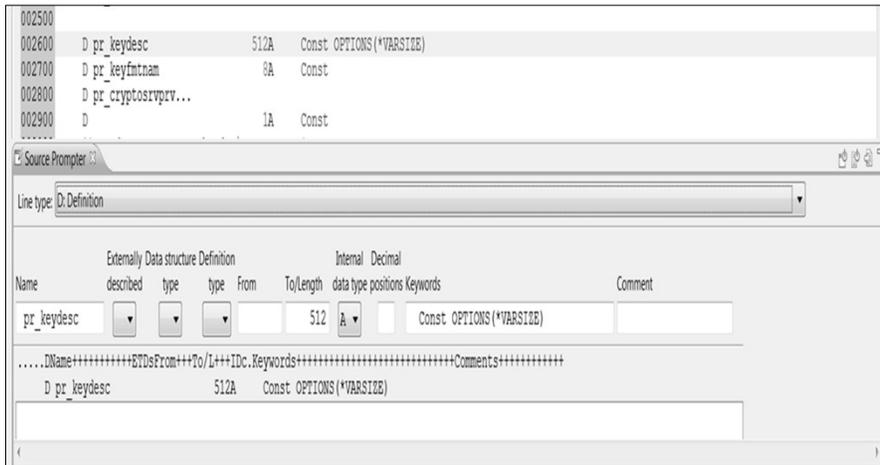
- Select the block of code, right click and select your function





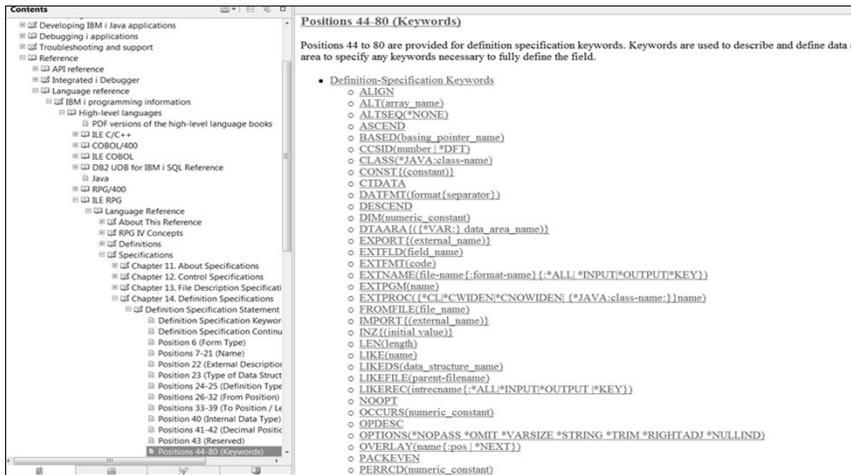
## Cursor sensitive prompting and help features are available

- Press F4 on any line to display the source code prompter



## Cursor sensitive prompting and help features are available (cont.)

- Position the cursor in the spec press F1 for built-in help text
- This is the help text for the D-spec keywords section



## Multiple active views of the same editable source member

- Edit different sections of the SAME open source member
- Source>Select New Editor – or – press CTRL-2

```

ENCDECRYPT.RPGL
192168.2.1:DEMOLIB/QPGLSRC/ENCDECRYPT:1
Line 9      Column 48  Replace
.....DName+++++ETDsFrom+++To/L+++IDc.Keywords+++++
000200      *
000300      * Identify main prototype
000400      D secretdata      pr          24      value
000500      D                  D          24      value
000550      rp2                D          1      value
000700      *****
000800      * Procedure interface
000900      P secretdata      B          export
001000      d                  pi          24
001100      d datastring      24      value
001200      d direction       1      value
001400      *****
001500      ** Prototype for ENCRYPT DATA QC3ENCDT **
001700      *****
001800      D Qc3EncryptData pr          ExtPgm('QC3ENCDT')
001900      D pr_cleardata    65535A  OPTIONS(*VARSIZE)
002000      D pr_cleardtalen 10I 0      Const
002100      D pr_cleardtalm  8A          Const
002200      D pr_algoftnam    64A          Const OPTIONS(*VARSIZE)
002300      D pr_algoftdesc   8A          Const
002400      D pr_keydesc     512A          Const OPTIONS(*VARSIZE)
002500      D pr_keyftnam    8A          Const
002700      D pr_cryptostrvrv... 1A          Const
002900      D                  1A          Const
003000      ** Hardware Cryptography device name or *BLANKS
003100      D pr_cryptoDevName... 10A          Const
003200      D pr_encrypteddata... 65535A  OPTIONS(*VARSIZE)
003300      D pr_endcatalen  10I 0      Const
003400      D pr_endcatalen... 10I 0      Const
003700      D                  10I 0
192168.2.1:DEMOLIB/QPGLSRC/ENCDECRYPT:2
Line 184   Column 67  Replace
.....1.....2.....3.....4.....5.....6.....7.
015500      D pad_PadChar     C          Const('1')
015600      D key_BIN         C          Const('0')
015800      /free
015900      // Perform housekeeping
016000      exsr housekeeping;
016100      //
016200      // When direction = 'E', clear data is being sent to be encrypt
016300      // When direction = 'D', encrypted data is being sent to be clea
016400      select;
016500      when direction = 'E';
016600      exsr encryptroutine;
016700      when direction = 'D';
016800      exsr decryptroutine;
016900      endsl;
017000      *inlr = *on;
017100      // Subroutines
017200      // *****
017300      begrs housekeeping;
017400      // *****
017500      // Initialize data structures
017600      pgmalgorithm.Algorithm = TripleDES;
017700      pgmalgorithm.blocklength = 8;
017800      pgmalgorithm.mode = mode_ECB;
017900      pgmalgorithm.PadChar = X'00';
018000      pgmalgorithm.PadOption = pad_PadChar;
018100      pgmalgorithm.reserved1 = X'00';
018200      pgmalgorithm.maclength = 0;
018300      pgmalgorithm.keySize = 0;
018400
018500
018600
018700
018800
018900
019000
019100
019200
019300
019400
019500
019600
019700
019800
019900
    
```

## SEU line editor commands have all remained

- Once you're in the LPEX editor you can ramp up very quickly
- You can also use Windows functions such as CTRL-Z
- SEU functions are not directly compatible, such as F15

```

ENCDECRYPT.RPGL
Line 6      Column 49  Replace
.....DName+++++ETDsFrom+++To/L+++IDc.Keywords+++++
000200      *
000300      * Identify main prototype
000400      D secretdata      pr          24      value
000500      D                  D          24      value
000550      rp2                D          1      value
000700      *****
000800      * Procedure interface
000900      P secretdata      B          export
001000      d                  pi          24
001100      d datastring      24      value
001200      d direction       1      value
001400
    
```

## Dirty source code editors

- An asterisk next to the member name indicates unsaved changes
- Very useful when several members open at once
- If restored to original state or saved, no longer dirty editor

```

*ENCDECRYPT.RPGLE
Line 16 Column 1 Replace 1 change
.....1.....2.....3.....4.....5.....6.....7.....
000200      *
000300      * Identify main prototype
000400      D secretdata      pr          24
000500      D                  24      value
000600      D                  1      value
000601      D                  1      value
000602      D                  1      value
000700      *****
000800      * Procedure interface
000900      P secretdata      B          export
001000      d                  pi          24
001100      d datastring      24      value
001200      d direction      1      value
001400
  
```

## Source verification – Out of the park!

- Source>Verify – or – Shift-Ctrl-V
- Simulates the compiler but doesn't create an object
- Can be used while offline
- Double click on an error and RDi goes right to the line



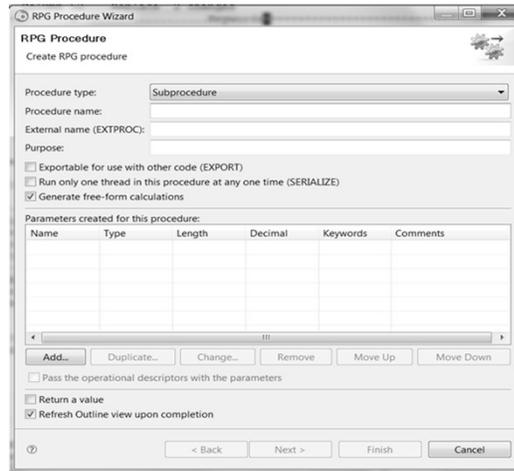
```

ENCDECRYPT.RPGLE
Line 86 Column 7 Replace
.....1.....2.....3.....4.....5.....6.....7.....8.....9.....
008800      D key0200_t      10I 0
008900      D BlockLength    10I 0
009000      D Mode            1A
009100      D PadIgnom        1A
009200      D PadChar        1A
009300      D Reserved1      1A
009400      D MACLength    10I 0
009500      D KeySize      10I 0
009600      D InxVector    32A
009700      *
009800      *****
009900      * Define template key0200_t
010000      *****
010100      *
010200      * key0200_t is the template for the key data structure pgmkeys
010300      D key0200_t      00
010400      D keytype      10I 0
010500      D keylength    10I 0
010600      D keyformat    1A
010700      D reserved    1A
010800      D Value          256A
010900      *
011000      *****
011100      * Define template apieror_t
011200      *****
011300      *
Syntax check action completed with no errors.

Error List
192.168.2.21 - DEMOLIB/QRPGLESRC(ENCDECRYPT)
ID      Message      Severity  Line  Location      Connection
I RNF7031 The name or indicator RESERVED is not referenced. 0 79 DEMOLIB/QRPGLESRC(ENCDECRYPT) CPDS
I RNF7031 The name or indicator SECRETDATA is not referenced. 0 4 DEMOLIB/QRPGLESRC(ENCDECRYPT) CPDS
I RNF7031 The name or indicator ALGORITHM is not referenced. 0 86 DEMOLIB/QRPGLESRC(ENCDECRYPT) CPDS
I RNF7031 The name or indicator BLOCKCL is not referenced. 0 87 DEMOLIB/QRPGLESRC(ENCDECRYPT) CPDS
I RNF7031 The name or indicator MODE is not referenced. 0 88 DEMOLIB/QRPGLESRC(ENCDECRYPT) CPDS
  
```

## RPG Procedure Wizard removes the complexity

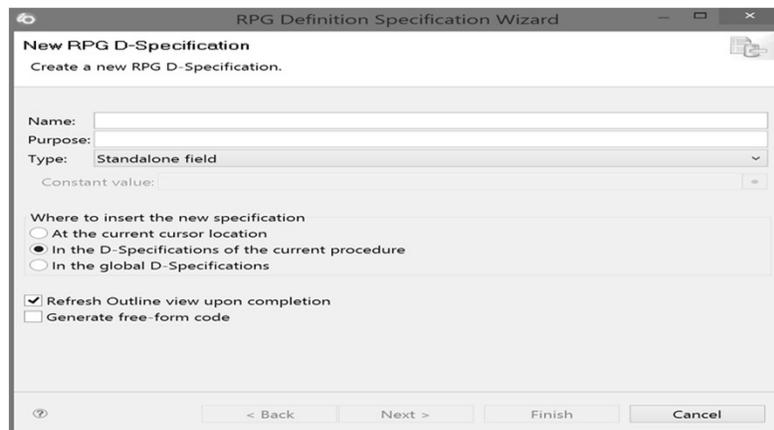
- Source>New>Procedure
  - Creates the procedure interface as well as the prototype



The screenshot shows the 'RPG Procedure Wizard' dialog box. It has a title bar with a refresh icon and a close button. The main title is 'RPG Procedure' and the subtitle is 'Create RPG procedure'. The 'Procedure type' is set to 'Subprocedure'. There are input fields for 'Procedure name', 'External name (EXTPROC)', and 'Purpose'. Below these are three checkboxes: 'Exportable for use with other code (EXPORT)', 'Run only one thread in this procedure at any one time (SERIALIZE)', and 'Generate free-form calculations' (which is checked). A table titled 'Parameters created for this procedure:' has columns for Name, Type, Length, Decimal, Keywords, and Comments. Below the table are buttons for 'Add...', 'Duplicate...', 'Change...', 'Remove', 'Move Up', and 'Move Down'. At the bottom, there are checkboxes for 'Pass the operational descriptors with the parameters', 'Return a value', and 'Refresh Outline view upon completion' (checked). Navigation buttons include '< Back', 'Next >', 'Finish', and 'Cancel'.

## D-Spec wizard – Never have to remember the keywords!

- Source>New>D Specification
  - Used for standalone fields, named constants, program-described, externally-described, program-status and file-information data structures



The screenshot shows the 'RPG Definition Specification Wizard' dialog box. The title bar includes a refresh icon and a close button. The main title is 'New RPG D-Specification' and the subtitle is 'Create a new RPG D-Specification.'. There are input fields for 'Name:' and 'Purpose:'. The 'Type:' is set to 'Standalone field'. Below this is a 'Constant value:' field. There are three radio buttons for 'Where to insert the new specification': 'At the current cursor location', 'In the D-Specifications of the current procedure' (selected), and 'In the global D-Specifications'. At the bottom, there are checkboxes for 'Refresh Outline view upon completion' (checked) and 'Generate free-form code'. Navigation buttons include '< Back', 'Next >', 'Finish', and 'Cancel'.

**Looking Inside the Developer's Toolkit:  
From STRPDM to RDi  
(Rational Developer for IBM i)**



**Charles Guarino**

**THANK YOU !!!**