

SEE/change

SEE/Change

PE Notes 4.5400

(Version 4.5400)



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Thenon – designers of SEE/Change, the leading iSeries change management product.

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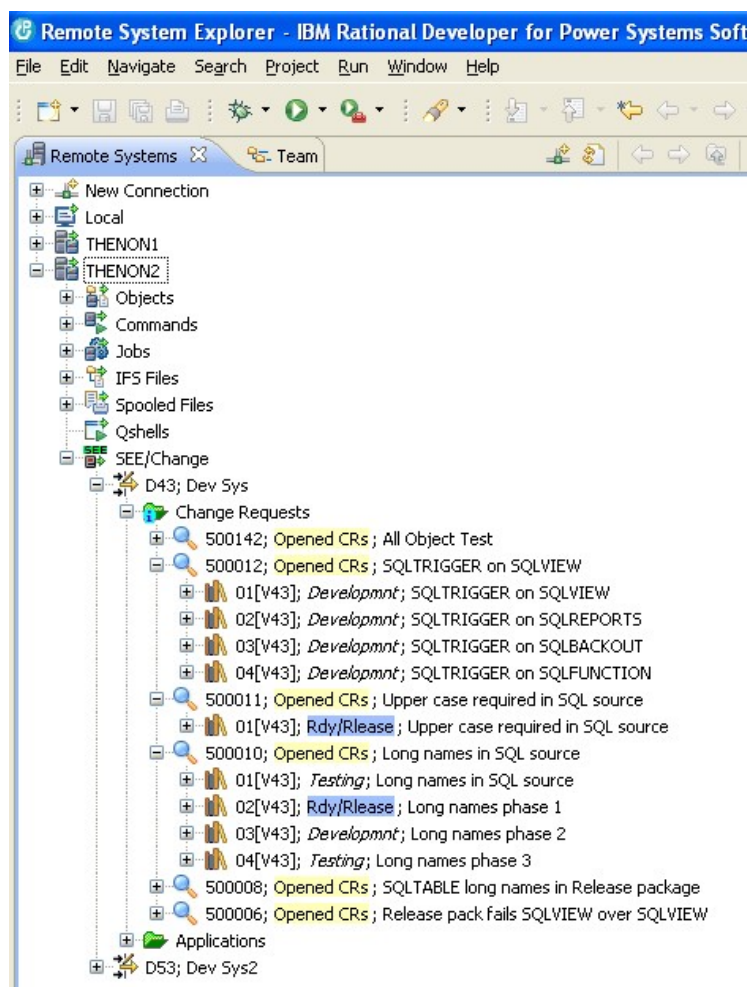
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2 Primary PE Enhancements

2.1 Enhanced Plug-in for Rational Developer (v1.4.2)

Previously, the SEE/Change Plug-in for Rational Developer provided much of the functionality found in the 5250 SEE/Change Development Manager (i.e. *Work with Change Request Development*). With PE 4.5400, a new version of the Plug-in (v1.4.2) is supported that implements much of the functionality found in the 5250 SEE/Change Change Manager. When you expand the Change Requests folder in the Remote Systems view, the CR tree will contain IRs and CRs presented in the same sequence that they are shown in the 5250 *Work with Change Requests* screen. CRs at all stages of the life cycle can be displayed – not just those that are in Development. The pop-up actions that are available now include the ability to create, copy, delete and promote CRs, just as you can in 5250 *Work with Change Requests*.

The following screen shots show an example of the CR tree and the Promote CR wizard at v1.4.2.



Promote CR 500001/05[V43]; Test Status

Select Movement Type

Please press Finish to begin movement to *ACP.

Available movements

<input type="checkbox"/>	Testing	...first, revert CR for development
<input type="checkbox"/>	Integrate	...CR already in this environment
<input checked="" type="checkbox"/>	Acceptance	Acceptance: Acceptance/QA Library
<input type="checkbox"/>	Rdy/Release	Rdy/Release: Ready for Release
<input type="checkbox"/>	Live/Prod	...first, change CR status to *RDY
<input type="checkbox"/>	Redevelop	Redevelop : Revert to Development

☐ Revert on error

Server messages

- Warning: Other versions of FIXBUG *PGM level *B
Rty type *EMG, in CR 500097/01: CR status

For more details of the new functionality, please see the online Help that is included with v1.4.2 of the Plug-in.

Note: v1.4.1 of the Plug-in will also work with PE 4.5400, however you will not see the new functionality. Also, if you download v1.4.2 of the Plug-in, you must be authorized to function WRKCHGRQS in User Enrolment to see the new functionality – otherwise the tree will appear in the same way as it did in previous versions of the Plug-in.

2.2 SQL view scoped over SQL view

Prior to PE 4.5400, SEE/Change assumed that a logical file was scoped over one or more physical files and that this also applied when the logical file was a SQL view. However, the operating system now allows a SQL view to be created over another SQL view. In fact it is now possible to have a hierarchy of SQL view dependencies so that a table could have child views, grandchild views, great-grandchild views etc.

If a logical file is included in a CR, but its based-on physical files are not, then when SEE/Change packages the CR into a Release, copies of the missing based-on physical files are automatically placed into the Release library. In order to support SQL views scoped over SQL views, the process that calculates the missing based-on physicals has been re-worked in PE4.5400 so that it will also copy any based-on SQL views into the Release library. If there is a hierarchy of dependent views then the sequence in which to copy the views is calculated so that the correct scoping is maintained.

Cross-referencing has been enhanced to allow for a hierarchy of SQL views. If required, cross-referenced dependent views will be recreated on promotions and included in the Release library when packaging a Release. The delivery sequence for the cross-referenced views in the Release library will be adjusted to ensure that they are rebuilt in the correct sequence when the Release is installed.

If two or more dependent SQL views are retrieved to a CR then they must be created in the CR so that the dependencies are maintained (i.e. a parent view must be created in the CR before its dependent view).

If two or more dependent SQL views are retrieved to a CR then the dependencies must be contiguous. When attempting to promote the CR, SEE/Change's CHKCR validation routine will issue an error message if there is a gap in the hierarchy of SQL views retrieved. For example, if view A is scoped over view B and view B is scoped over view C, then CHKCR will issue an error message if A and C are retrieved but B is not.

If two SQL views are retrieved to a CR and one of the views is dependent on the other, then the user must ensure that they are delivered in the correct sequence (i.e. the parent is delivered before the dependent). It may be necessary to manually adjust the delivery sequence in the CR to achieve this. When attempting to promote the CR, CHKCR will issue an error message if it finds that a dependent view is sequenced to be delivered before its parent.

2.3 Changed behaviour for SQL triggers

Prior to PE4.5400, if Option 14=Compile was chosen to create a SQL trigger in a CR, SEE/Change would check that the trigger table existed in the CR library and if not would amend the SQL trigger source to add a statement to create the trigger table in the CR before creating the trigger. The added statement took the form 'CREATE TABLE CrLib/XXXX LIKE MdlLib/XXXX'.

This approach has proved to be flawed because:

- a) The added statement does not create an exact copy of the original table (e.g. Primary Keys are not copied) and this may affect other objects in the CR (e.g. compiling a program that references the table.)
- b) The process fails if the trigger is to be added to a SQL view instead of a SQL table.

With PE4.5400 the treatment of SQL triggers in the CR has changed. SEE/Change will no longer amend the source to attempt to create the trigger table (or view) in the CR library. Instead, Option 14=Compile against a SQL trigger will simply run a syntax check against the source (the SQL trigger will not be created in the CR library). This is achieved by issuing the RUNSQLSTM command with the parameter PROCESS(*SYN).

When promoting the CR to Testing, SEE/Change's CHKCR validation routine will no longer check that the SQL trigger exists in the CR library. When promoting the CR to the configured environments, the SQLTRIGGER source will be run normally as before and the SQL trigger created in each environment

If you wish to create the trigger in the CR library, you must firstly ensure that the affected objects (tables, views etc) are in the CR library and then issue a RUNSQLSTM against the CR source member. (For example by choosing Option 25=Pmt Compile and changing the Statement Processing parameter to PROCESS(*RUN).)

2.4 Change Object Defaults

The Change Object Defaults option in the Configuration Manager has been reworked into a standard 'Work with' function. When first accessed, the new *Work with Object Types* screen will show all the object types that are currently enabled in SEE/Change. You can expand the list to include object types that are currently disabled by pressing F11=Show All. You can toggle whether an object type is enabled or disabled in SEE/Change by choosing Option 7 or Option 8.

Change Management System 4.5400						
Work with Object Types						
Type options, press Enter.						
2=Change 3=Copy 4=Delete 5=Display 7=Enable 8=Disable						
Opt	SEE/Change Type	Object Type	Object Attr	Lib Type	User Defined?	Type Enabled?
	BNDDIR	*BNDDIR		*PGM		*YES
	CBLL	*PGM	CBLL	*PGM		*YES
	CBLL_MOD	*MODULE	CBLL_MOD	*PGM		*YES
	CBLL_SRC	*PGM	CBLL_SRC	*PGM		*YES
	CLE	*PGM	CLE	*PGM		*YES
	CLE_MOD	*MODULE	CLE_MOD	*PGM		*YES
	CLE_SRC	*PGM	CLE_SRC	*PGM		*YES
	CLLE	*PGM	CLLE	*PGM		*YES
	CLLE_MOD	*MODULE	CLLE_MOD	*PGM		*YES
	CLLE_SRC	*PGM	CLLE_SRC	*PGM		*YES
	CLP	*PGM	CLP	*PGM		*YES
	CMD	*CMD		*PGM		*YES
						More...
F3=Exit F9=Cmd F11=Show All F12=Cancel						

Change Management System 4.5400			
Work with Object Types			
SEE/Change type	: CLP		
Object type	: *PGM		
Object attribute	: CLP		
Attribute for IMPORT	: CLP		
Attribute for APYOBJAUT	: CLP		
Object group	: *PGM	(*CMD/*DSP/*LF/*MNU/*PF/*PGM/*PRT)	
Library type	: *PGM	(*DB/*PGM/*JDE)	
Processing sequence	: 50	(1 - 99)	
Allow site-specific?	: *YES	(*YES/*NO)	
Object reference ID	: 26		
CASE tool	: *NONE	(*NONE/*LANSA)	
CASE tool object ID	:		
Source based?	: *YES	(*YES/*NO)	
Source usage (P)	: *COMPILE		
Default source file	: QCLSRC		
Edit Type	: CLP		
Source length	: 92	From column : 1	To column : 80
Comment prefix/suffix	: /*	/ /*	
CODE compile option	: *SRCDBG	(*EVENTF/*LSTDBG/*SRCDBG)	
			Bottom
F3=Exit	F4=Prompt	F9=Command	F12=Cancel

Although it is possible to amend the default settings for an object type and even to create your own user-defined object types, there are restrictions and so we recommend that you contact your supplier before attempting to do this.

3 Software Performance Reports

The following Table lists software performance reports that have been resolved in this PE.

SPR Log Number	Description
5734	DEFAULT keyword ignored by ALTER TABLE on promotions
5729	APYFATR fails for non-keyed logical files
5727	Promote fails for large CR if more than 9999 rebinds required
5726	Xref not recompiling ILE program created with CRTBNDXXX
5722	Movement abends if CR object has more than 99 archive records
5718	Service program not created using Rational Developer
5716	CRTSRVPGM fails if there are more than 50 BNDSRVPGM entries
5714	SYNON (CA 2E) v8.6 interface problem for RPGLE program
5703	Release packaging fails if SQLVIEW is scoped over SQLVIEW
5699	Create SQLTRIGGER fails if long table name is specified
5698	Create SQLTRIGGER fails if lower case table name is specified
5694	Enhance WRKCHGRQS filter to only show CRs assigned to User
5559	Increase limit in SQL source member from 410 to 820 lines (64K)

The following Table lists software performance reports that have been resolved at v1.4.2 of the Rational Developer plug-in.

SPR Log Number	Description
496	Connecting to two actual systems in same session fails

4 Installation

4.1 Warnings

To ensure a successful upgrade please use the SEE/Change upgrade guide. This comprehensive guide is available from the Thenon web site Download Area or from the support line.

Steps must be taken to preserve any customised code especially if upgrading by reinstalling the product libraries and running a conversion.

4.2 Dependencies

- Must be applied after 4.5300.
- SEE/Change 4.5400 will run on i5/OS version V6R1M0 or higher.
- Must be applied to all remote sites? **See compatibility chart.**

5 Plug-in Compatibility Chart

SEE/Change Plug-in Compatibility

SEE/Change Server Version	<u>IDE Version</u>	
	RDP 8.x.x.x	RDP 9.x.x.x
4.5400	1.4.2	1.4.2

U/C: Unsupported Combination

6 SEE/Change Compatibility Chart

SEE/Change Release Compatibility Chart

		Development														
		4.5000	4.5001	4.5002	4.5003	4.5004	4.5005	4.5100	4.5101	4.5102	4.5103	4.5104	4.5200	4.5201	4.5300	4.5400
Production	4.5000	Yes	Yes	1	1,2	1,2	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3,4	1,2,3,4,5	1,2,3,4,5,6	1,2,3,4,5,6
	4.5001	No	Yes	1	1,2	1,2	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3	1,2,3,4	1,2,3,4,5	1,2,3,4,5,6	1,2,3,4,5,6
	4.5002	No	No	Yes	2	2	2,3	2,3	2,3	2,3	2,3	2,3	2,3,4	2,3,4,5	2,3,4,5,6	2,3,4,5,6
	4.5003	No	No	No	Yes	Yes	3	3	3	3	3	3	3,4	3,4,5	3,4,5,6	3,4,5,6
	4.5004	No	No	No	No	Yes	3	3	3	3	3	3	3,4	3,4,5	3,4,5,6	3,4,5,6
	4.5005	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	4	4,5	4,5,6	4,5,6
	4.5100	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	4	4,5	4,5,6	4,5,6
	4.5101	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	4	4,5	4,5,6	4,5,6
	4.5102	No	No	No	No	No	No	No	No	Yes	Yes	Yes	4	4,5	4,5,6	4,5,6
	4.5103	No	No	No	No	No	No	No	No	No	Yes	Yes	4	4,5	4,5,6	4,5,6
	4.5104	No	No	No	No	No	No	No	No	No	No	Yes	4	4,5	4,5,6	4,5,6
	4.5200	No	No	No	No	No	No	No	No	No	No	No	Yes	5	5,6	5,6
	4.5201	No	No	No	No	No	No	No	No	No	No	No	No	Yes	6	6
	4.5300	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes
	4.5400	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes

Notes

Note 1: Yes, unless wishing to use the new file attribute support or the new ILE remote delivery mechanism

Note 2: Yes, unless wishing to use stream file support distribution

Note 3: Yes, however CHGPF will revert to compile or duplicate on production machine

Note 4: Yes, however Version Control on Releases will be ignored on production machine

Note 5: Yes, however the Alternative ALTER TABLE support will be ignored on production machine

Note 6: Yes, however changes to the default object delivery sequence will be ignored on production machine.

Minimum i5/OS Levels

4.5000	V5R1 or V5R2 if using WDSc plug-in
4.5001	V5R1 or V5R2 if using WDSc plug-in
4.5002	V5R1 or V5R2 if using WDSc plug-in
4.5003	V5R1 or V5R2 if using WDSc plug-in
4.5004	V5R2
4.5100	V5R2
4.5101	V5R2
4.5102	V5R2
4.5103	V5R2
4.5104	V5R3
4.5200	V5R3
4.5201	V5R4
4.5300	V5R4
4.5400	V6R1

Disclaimer: Every effort has been made to ensure accuracy however we cannot take responsibility for any errors caused by using this information