# SEE/Change

# **PE Notes 4.6000**

(Version 4.6000)



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# 2 **Primary PE Enhancements**

### 2.1 SEE/Change Configuration Auditing

PE 4.6000 provides for the auditing of changes made to the SEE/Change database by the Configuration Manager (CFGM). This new functionality has been added to simplify the work of systems audit staff, and to assist resolution of support issues arising during routine operations. The audit trail consists of field-level 'before and after' data captured from the principal CFGM files, presented via a new enquiry function within the Audit Manager (AM). Otherwise, auditing occurs transparently and the CFGM UI remains unchanged.

For auditing purposes, existing CFGM functionality is divided into six 'audit areas', each corresponding to a Work with (WW) command. Each Audit Area is further subdivided into 'activities', typically named after the major screen displays in the respective WW command. The Audit Areas and their constituent Activities are shown in the following table:

Work with - Audit Area	Activity
WRKSYSCFG - Work with	System Details
System/Site Configuration	Site Details
	Users for Distribution
WRKAPPCFG - Work with	App Details
Application Configuration	Libraries
	Source Pools
	Where Used/Libs
	Additional Libs
	Add Lib Desc
	RIs Forward
WRKPRMDTA - Work with	Each SEE/Change general parameter e.g., 'Date
Parameter Data	Formať
WRKOBJAUT - Work with	*OBJ – Specific named object
Object Authorities	*LIBTYP – Object type in a named library
	*LIB – All objects in a named library
	*TYP – Object type in all libraries
	*ALL – All objects in all libraries
WRKUSRAUT - Work with	Each enrollable SEE/Change function e.g., 'Grant
User Enrolment	movement authorisation'
WRKTAL - Work with System	Module/Integration Library
Authorisation Lists	Acceptance/QA Library
	Live/Prod Library
	Revert from Module/Integration
	Revert from Acceptance
	Revert from Ready/Release
	Revert from Live
	Allocate CR to a Release
	Ready for Release
	Create Release Packet

When enabled, configuration auditing relies on a new trigger program OMSTRG applied to each auditable CFGM file. This program captures change data and writes it to new audit files named after the originating files and suffixed with '\_A'. For example, when the XAP file is updated by the WRKAPPCFG command an audit trail is written to a new database file named XAP\_A.

Each user change to the CFGM database causes a small (< 1KB) increment to one of these files, so the additional storage occupied in OMSDTA will be small. A new purge function removes unwanted historical audit data.

#### 2.1.1 Starting Configuration Auditing

The configuration audit function is initially disabled. To enable it, follow these steps:

- 1) Use 'Work with General Parameters' (WRKPRMDTA, CFGM option 11) to locate the new general parameter @CFA and set it to 'Y'. This allows configuration auditing to operate in the current database.
- 2) Use 'Work with User Enrolment' (WRKUSRAUT, CFGM option 22) to gain authorisation to the new STRCFGAUD command.
- 3) In 'More Audit Manager Options' (AM option 60) select 'Start Configuration Auditing' (option 31). The command STRCFGAUD will then begin auditing changes to configuration files in the current OMSDTA database. Auditing continues until you invoke the ENDCFGAUD command (option 32) or reset the general parameter @CFA to 'N'.

NB: STRCFGAUD requires exclusive access to the CFGM files. If these files cannot be allocated to the job running the STRCFGAUD command, it will fail. Please ensure no one else is using SEE/Change and end the communication subsystem before invoking these commands.

#### 2.1.2 Configuration Audit Enquiry

You can make an audit enquiry by selecting 'Display Configuration Audit' (option 30) from the AM menu, or by keying DSPCFGAUD at the command line.

The main enquiry screen invites you to identify an Audit Area of interest. The F4 function key lists the available Audit Areas:

```
THENON
                  SEE/Change Development Environment.
                   Display Configuration Audit
Audit Area. .(P).
   Opt :
                   Select Audit Area
   : Enter any char to select
      Work with System/Site Configuration
Work with Application Configuration
   :
   :
                                                    :
       Work with Parameter Data
       Work with Object Authorities
   :
       Work with User Enrolment
   :
      Work with System Authorisation Lists
   :
                                              Bottom :
   : F12=Cancel
       .....
F1=Help F3=Exit F4=Prompt F5=Refresh F9=Cmd F11=Change view
F12=Cancel F21=Show system entries F22=Show DFU/SQL only
```

When you have selected an Audit Area, a corresponding list of configuration changes appears. Each change action is characterized as a data addition (action ADD), update (action UPD), or deletion (action DLT) as shown in the display below:

THENON	THENON SEE/Change Development Environment.					
Audit A	2000 (D)	MDKGNGGEG	Wards with	Custom /Cito Configuration		
AUGIC A	rea. (P).	WKRSISCEG	MOLK MICH	System/Site Configuration		
5=Dispi	ay 6=Prin	.t				
Opt Act	Date	Time	User	Activity	System (P)	
	23/09/21		*ALL			
ADD	22/09/21	13:34:37	NIGEL	Users for Distribution	Prod 3	
ADD	22/09/21	13:34:37		Users for Distribution		
ADD	22/09/21	13:34:26		Site Details		
ADD	22/09/21	13:34:26		System Details		
ADD	16/09/21	18:44:10	RICHARD	Users for Distribution	PRD 1	
UPD	16/09/21	18:32:41		System Details	Developmen	
ADD	15/09/21	15:24:55		Site Details	1	
UPD	14/09/21	11:50:05	NIGEL	System Details	PRD 1	
ADD	13/09/21	16:05:28	HARVEY	Users for Distribution		
UPD	13/09/21	14:25:27	NIGEL	Site Details	PRD 2	
UPD	13/09/21	14:25:18		System Details		
UPD	13/09/21	14:25:14		System Details		
UPD	13/09/21	14:25:00		Site Details	PRD 1	
UPD	13/09/21	14:24:47		System Details		
				-	More	
F1=Help	F3=Exit	F4=Prompt	F5=Refresh	F9=Cmd F11=Change view		
F12=Can	cel F21=S	how system	entries F2	2=Show DFU/SQL only		
		1		~ ~ 1		

The listing appears in reverse chronological order and includes changes made up to and including the current date. However, you can enter an earlier date if required. Also shown are the 'Activity and the user originating the change.

You can enter filtering criteria in the first line of the subfile. Enter a specific username or the name of an 'Activity within the audit area. You need supply only the first few characters of the 'Activity name, which is not case-sensitive.

The rightmost subfile column provides further filtering depending on the selected Audit Area. For example, the Audit Area 'Work with System/Site Configuration' shown above allows entry of a limiting system code, and a similar facility appears in other Audit Areas. However, when you press function key F11 (Change view), the rightmost column contains the name of the SEE/Change program responsible for the change. Additionally, you can press F22 (Show DFU/SQL only) to see changes made by these utilities.

Function key F21 (Show system entries) reveals entries created when auditing starts (action STR) or ends (action END), and when you purge historical audit data (action PRG). Here the Activity column identifies a database file affected by the operation, as seen in the display below. You can filter system entries by date and username, as already described.

THENON		SEE/Ch	ange Develop	oment Environment.	
Audit A	700 (D)	MDREVECEC	Work with	Sustem/Site Configuration	
AUGIC A	.1ea(r).	WKKSISCFG	WOIK WICH	System/Site Configuration	
Opt Act	Date	Time	User	Activity	
1	17/10/21		HARVEY	-	
PRG	28/09/21	15:14:35	HARVEY	O#AUD A upto 15/06/20	
PRG	28/09/21	15:14:35	HARVEY	XSI A upto 15/06/20	
PRG	28/09/21	15:14:35	HARVEY	XSY A upto 15/06/20	
STR	7/09/21	9:26:00	HARVEY	XSY	
STR	7/09/21	9:26:00	HARVEY	XSI	
END	7/09/21	9:24:21	HARVEY	XSY	
END	7/09/21	9:24:08	HARVEY	XSY	
STR	7/09/21	9:12:53	HARVEY	XSY	
STR	7/09/21	9:12:52	HARVEY	XSI	
END	7/09/21	9:03:37	HARVEY	XSY	
END	7/09/21	9:01:46	HARVEY	XSY	
END	7/09/21	8:56:19	HARVEY	XSY	
END	7/09/21	8:54:46	HARVEY	XSY	
STR	7/09/21	8:52:19	HARVEY	XSI	
					More
F1=Help	F3=Exit	F4=Prompt	F5=Refresh	n F9=Cmd F11=Change view	
F12=Can	cel F21=H	ide system	entries F2	22=Show DFU/SQL only	

For a specific (non-system) change, you can display (option 5) or print (option 6) some lower-level detail. Both options show the selected change with a listing of 'before' and 'after' data points, seen in 'Display Audit Detail' screen below:

THENON SEE/Char	nge Develo Displav A	opment Environment.		
Audit Area WRKSYSCFG Wor	k with Sy	stem/Site Configurat	ion MS610	
Act Date Time	User	Activity	10010	System
5=Display Extended Details	NIGEL	Site Details		PRD 2
Opt Before	After	1	Field	
PR1	PR1	:	Sys Code	
PR1	PR1	:	Site Code	
Production system 1	PRD 2	1	Desc	
				Bottom
F1=Help F3=Exit F5=Refresh	F9=Cmd	F12=Cancel		

This screen shows the action, date, time, username, Activity and filter setting (where appropriate) for the selected change.

A list containing 'before' and 'after' data values, and the field name appears beneath.

For the ADD action, the 'Value' column contains the new data values.

For the DLT action, the 'Value' column contains the data values immediately prior to deletion.

For the UPD action, both 'before' and 'after' columns are present, with changed field value(s) highlighted.

This screen format truncates field values it cannot accommodate. Select option 5, 'Display extended detail' to see the entire values.

Use option 6 against a change appearing on the main 'Display Configuration Audit' screen to obtain a report version of the change. For changed fields the 'after' column values are marked with >>> to ease identification, as shown below:

File .	:	OMS4740		Disp	play Spooled File		Page/Line	1/1
Control							Columns	1 - 130
*+ LSTCFGAU	1+ UD THEN	.2+ ON	.3+4	+5+6 SEE/Char	6+7+8+. nge Development Environment	9+0	.+1+ 16/1	2+3 0/21 Page 1
				Configurati	ion change details			
			Audit Area. Job	: WRKSYSCFG : 360345/NIGH	Work with System/Site EL/QPADEV0003	Configuration Program	: OMS61	0
Act D	Date	Time	User	Activity	System			
UPD 1	13/09/21	14:25:27	NIGEL	Site Details	PRD 2			
Field				Before/Afte	er			
Sys Code	e			PR1				
Site Cod	de			PRI PR1				
				PR1				
Desc				Production >>> PRD 2	system 1			
END	OF RE	PORT	16/10/21	14:45:10				

#### 2.1.3 Purging Configuration Audit Data

Once you have enabled configuration auditing with the STRCFGAUD command, audit data accumulates indefinitely. While this is unlikely to generate excessive quantities of data, you may nevertheless wish to remove older data from the configuration audit database.

In 'More Audit Manager Options' (AM option 60) select 'Purge Configuration Audit' (option 21). The command PRGCFGAUD will then remove audit entries up to an end date supplied as parameter to the command. The command also creates a PRG system entry for each purged audit file.

The end date must be over 12 months ago, so at least 12 months of configuration audit data is retained.

#### 2.1.4 Ending Configuration Auditing

Use 'Work with General Parameters' (WRKPRMDTA, CFGM option 11) to locate the general parameter @CFA and set it to 'N'. This prevents the audit of further configuration changes.

To completely remove Configuration Auditing:

- 1) Ensure general parameter @CFA is set to N.
- 2) Ensure that SEE/Change is not in use elsewhere.
- In 'More Audit Manager Options' (AM option 60) select 'End Configuration Auditing' (option 32). Auditing will cease until you reset the general parameter @CFA to 'Y' and invoke the STRCFGAUD command.

NB: ENDCFGAUD requires exclusive access to the SEE/Change configuration files. If the files cannot be allocated to the job running the command, it will fail. Ensure nobody is using SEE/Change and end the communications subsystem before using the ENDCFGAUD command.

#### 2.2 Extended SQL source file record length

The maximum record length of SQL source files is extended from 80 characters to 122 characters.

The extended record length accommodates a longer SQL statement and reduces the number of line continuations.

Remember, when extending source file size in Change Object Defaults, ensure your source file in the source pools is the same size or greater.

#### 2.3 Disable applications

The PE allows applications to be *disabled* from within the WRKAPPCFG command. As a result, disabled applications are not visible in the Work with Application Configuration screen display. This display now provides the F11 function key to toggle an application between the *enabled* and *disabled* states:

THENON	SEE/Change Work with A	Development Envir pplication Configu	conment. Iration	
2=Chang 9=Overr	e 3=Copy ides 12=Where used	4=Delete 5 14=Src files 16	5=Display 5=CASE info	6=ASSET Cfg 17=JDE info
Opt         App	Description < Locate Analysis Finance Interfacing Management Information Order Processing Payroll	Managed b ROBIN+ LIZ+	y Enabled *YES *YES *YES *NO *YES *YES	
WHS F1=Help F12=Canc	Warehousing F3=Exit F4=Prompt F5= el F21=Include Thenon a	Refresh F6=Create pp F23=More optic	*YES e F9=Cmd F11 ons F24=Messa	<b>Bottom</b> L=Hide Disabled ages

### 2.4 Application Control

The PE includes a new *Application Control* function (Option 50) that restricts application configuration operations to one or more named users, group profiles or supplemental group profiles. Users identified in this way are termed *managing users*. Users who are not managing users have restricted access to WRKAPPCFG functions. The QSECOFR user is always treated as a managing user.

THENON SEE/Change Development Environment. Work with Application Control				
Application	.: MIS Management 1	information	Enabled	: *NO
Enter the User/Gro empty to leave the	oup profiles that m e application unmar	anage this ap aged. Press E	oplication or leave Inter.	the list
User ROBIN LIZ QPGMR				
F1=Help F3=Exit	F5=Refresh F9=Cmc	l F12=Cancel	F15=Enable Applic	ation

### 2.5 Enhanced version information

The VERSION command now includes additional information on any patches applied since the base PE (V4.6000 in this case) was installed, along with Authorisation status and processor group for machine serial number

HDM information also appears in the OMS440 object movement report.

Following installation of V4.6000 no patches will be shown by the enhanced command because all previous patches were incorporated, as shown in the display below:

SEE SEE/Change - Change Management for IBM i System: (Development)	THENON
Fast track SEE/Change options: 21. Work with Change Requests 22. Work with Change Request Development	
: SEE/Change	:
SEE/Change Version: 4.6000 IBM i Version . : V7R4M0 System Serial No. : 78384C1 (P05) Partition ID . : 1 SEE/C : Authorisation . : Development OK 1 : HDM Description Date Time User 2 : No HDM's are installed on this version 3 : 4 :	: : : ftware : twork :
Selec :	:
> . : F12=Cancel F3=Ex : F13=I :	· · ·

Should any patches be applied to this version, they will be shown in the output of the VERSION command, as shown in the display below. Please note, in this display the patches are from previous versions of SEE/Change and have been used purely for the purpose of illustration.

SEE	SEE/Change - Change Manage (Developmen	ement for IBM i it)	System: TH	IENON
Fast track SEE/C	Change options:			
	22. Work with Change Requ	lests lest Development		
:	SEE/Change	•••••	· · · · · · · · · · · · · · · · · · ·	:
:	SEE/Change Version:	4.6000	:	:
:	IBM i Version :	V7R4M0	:	:
:	System Serial No. :	78384C1 (P05)	:	:
SEE/C :	Authorisation :	Development OK		
1 : HDM De	escription	Date Time	User	ftware
2 : 5922 CF	FGAUD writing WRKTAL records	10/03/22 10:08	QPGMR :	twork
3 : 5920 SQ	QL source over 80(92) fails	26/02/22 14:58	ROBIN :	:
4 : 5922 EN	NDCFGAUD leaving trg pgm XPD	16/02/22 12:10	LIZ :	
Soloc :	DL/INT Y SQLRPGLE_S not iiag	31/12/21 20:25	L1Z .	
===> :			Bottom	
: F12=Canc	cel		20000	
F3=Ex :			:	:
F13=I :				:

This new feature provides for quick identification of any modifications applied over and above the base version.

### 2.6 Enhanced release status description

The WRKRLS command of the development system can now optionally show enhanced release status information. Setting the new general parameter @RLE to \*YES will cause an enhanced release status display to be shown, as seen below. This replaces the current OPEN or CLOSED status with more descriptive information similar to that shown on the F11 screen. The PE ships with @RLE set to \*NO.

THENON SEE/Change Development Environme Work with Releases	ent.
2=Change 4=Delete 5=Wrk with CRs 9=Cl 14=Send to acpt 15=Send to live 16=Forward 17=In Opt Release Text	ose 10=Network sts Istall COMS 18=Install tape CR Status (P) Rcv-Date Stat
DEV00175Whs Bulk loc freezeDEV00174Upper tax changeDEV00173Upper tax changeDEV00172Disable MIS interfaceDEV00171Omnichannel fixDEV00170Account interface bug fix 3DEV00169Account interface bug fix 2DEV00168Account interface bug fix 1DEV00167Journalling correctionDEV00166Order total VAT calc changeDEV00165Analysis totalling bugDEV00164Trigger on order header	L A R Closed Live open Mvt Error Part Acpt. Live open Rls Create Not instal Live open Live open Live open Redevelop More
F3=Exit F4=Prompt F5=Refresh F6=Create F9=Cmd F1 F14=Curr flt F23=More options F24=Messages	1=Alt view F12=Cancel

### 2.7 Work with Releases search

The WRKRLS command now includes a search/filter facility based on the enhanced release status. This is in addition to the existing subfile positioning based on release text.

THENON	THENON SEE/Change Development Environment. Work with Releases						
2=Change 14=Send to ac <b>Opt Release</b>	4=Delete 5=Wrk with CRs 9=C1 pt 15=Send to live 16=Forward 17=Ir Text	ose stall COMS Status (P)	10=Network sts 18=Install tape CR Rcv-Date Stat L A R				
DEV         00175           DEV         00174           DEV         00173           DEV         00173           DEV         00172           DEV         00171           DEV         00170           DEV         00169           DEV         00167           DEV         00167           DEV         00167           DEV         00166           DEV         00164	Whs Bulk loc freeze Upper tax change Upper tax change Disable MIS inte : Enhanced release s Omnichannel fix : _ Accept/QA Account interfac : _ Closed Account interfac : _ Live open Account interfac : _ Mvt Error Journalling corr : _ Not instal Order total VAT : _ Part Acpt. Analysis totalli : _ Part Live Trigger on order : _ Part Redev	Closed Mvt Error tatus descr	iptions : : : : : : : : : : : : : : : : : : :				
F3=Exit F4=P F14=Curr flt	rompt F5=Refresh : Any char to select, F23=More options :	Fl=Help F	12=Cancel :				

To enable a filter, Key F4 with the cursor over the Status and select one of the enhanced status values offered.

#### 2.8 CR Status Notifications

#### 2.8.1 Overview

The PE contains a new WRKNTFY command to configure *notifications* raised when CR status changes occur during movement operations. A notification can be directed to named users, group users or users appearing in user-defined lists and is delivered in an email message or in a system message at the user's terminal (see section 2.7.4 below). A comprehensive configuration screen allows notification criteria to be defined along with the intended recipients. Notification processing occurs at the development system, but a CR movement occurring anywhere within the network can raise a notification.

You can invoke WRKNTFY via the Configuration Manager using main menu options 8>60>18 Work with CR Status Notifications. Additionally, a CR-specific notification for the current user can be configured via option 55 in Work with Change Requests (main menu option 21). In either case, the screen display below will be shown:

Also see Enabling notification messaging.

THENON	1	SEE/Change Development Environment. Work with CR Status Notifications Active for ROBIN		
2=Char	nge 3=Coj	py 4=Delete 5=Display		
		Active Date	Range	
Opt	Notify	Text	Active	Date Range
	Number		From	То
_	88	Order Processing going live	*START	*END
_	89	Payroll	*START	*END
_	100	Omnichannel	*START	*END
_	107	Correction to order VAT calculation.	*START	*END
_	108	Anything going live	*START	*END
_	109	Payroll live or live revert	*START	*END
_	110	Finance new to UAT	*START	*END
_	122	Grants movements	*START	*END
_	123	Analysis totalling bug	*START	*END
				Bottom
F1=Hel F14=Sh	lp F3=Ex. now all	it F5=Refresh F6=Create F9=Cmd F11=Show Fut	ure F1	2=Cancel

The *Work with CR Status Notifications* screen lists existing notification configurations. A notification is raised when an eligible CR is encountered during movement processing. CR eligibility is conditioned by selection criteria you provide for each notification configuration. To set the criteria, key F6 to create a new notification and amend the default criteria as described in section 2.7.2 below. Alternatively, you can take menu option 2 or 3 to change or copy an existing configuration. Note that the list shows the notifications you have created. Use F14 to show all notifications, including your own.

Notifications are *active* if the system date satisfies a range criterion (see 2.7.2 (b) below). *Future* and *expired* notifications are defined in the same way. You can use F11 to toggle between active, expired and future notifications.

Notify Number is a unique sequence number assigned when the configuration is created. It appears within the notification message and should assist a user receiving an unexpected message.

THENON S	SEE/Change Development Environment. Change Notification Criteria	
Notification Date active From Created By Email User/Groups And/Or User Email Lists .(P).	Any payroll changes 0/00/00 To. <u>99/99/99</u> Notify Number LIZ Liz Johnson LIZ CHRISTINE	100
CR Status (P). Systems (P). IR No/CR From Release No From	*ALL *ALL 000000 00 To <u>999999</u> 99 To <u>999999</u>	
Applications (P). CR Types (P). CR Priority (P). CR Text contains CR Users (P).	Payroll *ALL *ALL *ALL	
F1=Help F3=Exit F4=Pr F17=Maintain Notifv Use	rompt F5=Refresh F9=Cmd F12=Cancel er Lists	

#### 2.8.2 Create/Change/Copy notification criteria

This section describes the usage of fields in the *Change Notification Criteria* display above. You will receive a similar display when creating or copying a notification configuration.

- (a) Notification:- Descriptive text for the notification. The text need not be unique.
- (b) Date active From /To:- The notification is active if the system date lies within this range. Adjust these dates to reactivate an expired notification or activate a future one. A range 0-999999 means the notification is always active.
- (c) Created By:- Shows the user profile creating this notification.
- (d) Notify Users/Groups:- Enter up to five users or group users whose members will be notified. If email notification is required, use WRKDIRE to verify that the user's directory entry contains a Lotus cc:Mail address.
- (e) Notify User Lists:- Named lists of users to be notified (see 2.7.3 below). Use F17 to maintain the lists or F4 to select an existing list.
- (f) CR Status:- Use F4 to select one or more CR status values. A notification is raised when the status of an eligible CR assumes one of these values. Where a movement matches several configured notifications, only one message is sent. An eligible CR satisfies one or more of the criteria (g)-(n) below.

*Please note: the following criteria are suppressed when this function is entered via menu option 55 of WRKCHGRQS.* 

- (g) Systems:- Use F4 to select one or more configured systems whose CRs are eligible to raise this notification.
- (h) IR No/CR From/To :- IR/CR numbers within this range are eligible to raise this notification.
- (i) Release No From/To:- CRs belonging to releases in this number range are eligible to raise this notification.
- (j) Application:- Use F4 to select one or more applications. CRs in these applications are eligible to raise this notification.
- (k) CR type:- Use F4 to select one or more CR types. CRs of these types are eligible to raise this notification.
- (I) CR Priority:- Use F4 to select one or more CR priorities. CRs having these priorities are eligible to raise this notification.
- (m)CR Text contains:- CRs having text containing this text are eligible to raise this notification. Text matching is not case sensitive.
- (n) CR Users:- Use F4 to select one or more CR users. CRs belonging to these users are eligible to raise this notification.

#### 2.8.3 Maintaining notify user lists

A *notify user list* is a named list of users and is treated as a group user when found in notification criteria (see 2.7.1 (e) above). To create or maintain these lists, key F17 from the Change Notification Criteria display and obtain the *Work with Notify User Lists* display shown below:

THENON	SEE/Change Development Environment. Work with Notify User Lists	
2=Change	3=Copy 4=Delete 5=Display	
Opt User - 4 - 1 - 6	s List description Ops Staff managers End Users Team Leaders IT Managers Payroll Team	
		Bottom
F1=Help	F3=Exit F5=Refresh F6=Create F9=Cmd F12=Cancel	

The display shows existing user notify lists. Select an indicated menu option or key F6 to create a new list.

### 2.8.4 Receiving a notification message

For a user to receive a notification via email, the system directory entry for the user must contain an appropriate Lotus cc:Mail address. You can create or edit this address using the WRKDIRE command.

In the absence of a Lotus cc:Mail address, notifications are presented as system messages. These messages activate the MW (Message Waiting) flag in the status line of the user's display terminal. When this flag is seen, you can view the queued messages by invoking the DSPMSG (Display Messages) command. A notification message contains the first-level text 'SEE/Change movement notification', as shown below.

Position the cursor on this text and key F1 to see the Additional Message Information. This includes the Notify Number, the originating CR and notification criteria, also shown below.

		Display Mes	sages				
Queue : Library : Severity :	ROBIN QUSRSYS 00		Program . Library Delivery	Syst  	. : . : . :	THENON *DSPMSG *NOTIFY	
Type reply (if requ SEE/Change movement	ired), press nt notificat:	Enter. ion.					
F3=Exit F13=Remove all	F11=Remove F16=Remove	a message all except	unanswered		F12=Ca F24=Mc	ancel bre keys	Bottom

 Additional Message Information

 Message ID . . . . . : OMN0000

 Date sent . . . . . : 10/10/22
 Time sent . . . . . : 17:26:25

 Message . . . . : SEE/Change movement notification.

 The following software movement has completed. Triggered by notification 100.

 CR:- 000092/05 (Change the upper tax calculation)

 Release:- 00174 (Upper tax change)

 Application:- Payroll

 Current CR status to:- Ready for Release

 System:- DEV System

 By:- Liz Johnson

 Bottom

 Press Enter to continue.

 F1=Help F3=Exit F6=Print F9=Display message details F12=Cancel

 F21=Select assistance level

### 2.8.5 Changing the notification message format

The SEE/Change message file OMSMSGU contains optional override messages for messages held in OMSMSGF. To change the notification message copy one or both of the following messages from OMSMSGF to OMSMSGU, then edit the message in OMSMSGU to the required format. The message identifiers are:

- OMN0000:- No email address is configured, and the notification message is sent to the user's terminal by the SNDMSG command
- OMN000E:- An email address is configured, and the notification message is sent to that address by the SNDDST command.

As shipped, these messages have identical formats in OMSMSGF.

#### SEE/Change – PE Notes 4.6000

The format of message OMN0000 (from the DSPMSGD command) is shown below. The CL variables &1-&10 in the second-level text carry the variable notification content and are available for use in your own versions of OMN0000 or OMN000E in OMSMSGU. Note that for an email notification formatted by OMN000E, the first-level text appears in the subject line and the expanded second-level text in the message body.

Display Formatted Message Text	
Message ID OMN0000 Message file OMSMSGF Library OMSSAVTHN	System: THENON
Message : SEE/Change movement notification. The following software movement has completed. Triggered by	notification &10.
CR:- &1/&2 (&3) Release:- &4 (&5) Application:- &9 Current CR status:- &6 System:- &7 By:- &8	
Press Enter to continue.	Bottom
F3=Exit F11=Display unformatted message text F12=Cancel	

#### 2.8.6 Enabling notification messaging

On the development system, with nobody using SEE/Change, go into SEE/Change and issue Start Work Notify command shown below.

#### STRWRKNTFY

This enables CR status changes to be identified within the development system, and production systems within the network. To stop all notification processing, with nobody using SEE/Change, go into SEE/Change and issue the End Work Notify command as shown below.

#### ENDWRKNTFY

Notification message are send using the QMON job within the QDMS subsystem. The subsystem and job may suffixed for specific customer configurations. (in commands below, use your specific configuration names)

In rare circumstances, the QMON job may have been disabled, this can be checked by using command

#### WRKACTJOB SBS (QDMS)

Look for job QMON. If QMON has been disabled (not found in the QDMS subsystem) in your configuration, it can be added in by adding the auto start job entry using the command given below

ADDAJE SBSD (QDMS) JOB (QMON) JOBD (QMONR)

Again the sub system description and job name may be specific to your configuration.

If the QMON auto start job has been added to QDMS subsystem description, the subsystem will need ending and starting again to start the QMON job.

#### 2.9 Test systems

SEE/Change now supports the concept of a test system. This allows you to deploy developments from CRs at development status directly into isolated test environments on the development machine.

A test system is an adjunct to a development system. It is a library environment into which CRs can be deployed before formal promotion through the SEE/Change environments begins, A development system can have several associated test systems. For example, if you have separate CRs containing alternative solutions to an application problem, and wish to evaluate them in parallel, you might deploy each to a test system for that purpose, without infringing any concurrent development restriction that might otherwise exist.

Test system deployments do not support reversion or archiving. You use test systems on a 'forward fix' basis, whereby errors are corrected either by redeployment or the deployment of a secondary CR. Existing test system objects are overwritten by incoming objects having the same names.

Developments in several CRs can utilise the same test system concurrently, but CRs should be deployed sequentially, and you should be aware that objects under concurrent development may be superceded during deployment. Test system objects can be cleared at any stage on a per-CR basis. If this is done for all objects in a test system CRs, it will revert to the objects contained in the libraries when it was configured.

#### 2.9.1 Defining a test system

A test system is defined by taking the new option 17=Crt tst sys in Work with Systems Configuration against the parent development system, as shown below. A pop-up window allows the entry of a unique 3-character code for the test system, along with descriptive text.

At any stage, the description can be changed by taking option 2=Change against the test system, which will appear immediately beneath the parent development system in this display. For example, you may create a test system for 'Invoice layout changes' and when that project is finished reuse tor another e.g. 'Picking snake revision'.

THENON	THENON Change Management Sys Work with Systems Config	tem 4.6000D uration	
2=Chang 14=Passt	e 3=Copy 4=Delete hru 17=Crt Tst Sys 20=Local system	5=Display	13=Sites
<b>Opt Sys</b> D43	Description < Locate Dev Sys 4.6000	OS/400 Version V7R3M0 V7R3M0	Local system
PRD	Acc Rcv invoice match fix Claims upload API PRD LON	V7R3M0 V7R3M0 V7R3M0 V7R2M0	Test System Test System Test System
PR3 PR4 P43	PRD3 AUS PRD4 Aus Prd Sys 4.6000	V7R2M0 V7R3M0 V7R3M0	
			Bottom
F3=Exit F21=Incl	F4=Prompt F5=Refresh F6=Create F9=C ude Thenon sys F24=Messages	md F12=Cancel	

Options 2=Change, 4=Delete and 5=Display can be used against a test system.

#### 2.9.2 Configuring a test system

When a test system has been defined, you can use Work with Application Configuration to specify its usage by each application in the scope of its parent development system.

Test systems appear beneath the parent development system in the Work with Application Configuration – Where Used as shown below. Here a test system can be enabled for the application, and you can proceed to define its libraries.

THENON	Work w	SEE/Change Development Environme ith Application Configuration -	ent. Where used	ı
Application .		: AP1 Demo Appl	Lo	ocal Sys. : DEV
3=Add site				
Opt System	Туре	Site	Applic Used ?	Site Grou Specific? Code
DEV System Acc Rcv in Claims upl Invoice pr	Dev TST TST TST	Dev System Dev Sys 2 Muswell Hill site. Prd Site Twickenham site. Twickenham site. Invoice print changes Claims upload API Invoice print changes	Y N N N Y Y N	N N N N N N N
PRD LON F1=Help F3=Exi F16=Update F24	Prod t F5= =Messa	PRD LON Refresh F9=Cmd F12=Cancel ges	Y	Y TWK <b>More</b>

In the Work with Application Configuration – Libraries display (below), enabled test systems are again shown beneath the parent development system. A single set of libraries is all that is required; you enter their names in the Live/Prod column.

THENON Work	THENON Change Managem with Application Conf	ent System 4.6000D iguration - Libraries	
Application	. : V43 V43 Acme Orde	r Entry System Lo	ocal Sys. : D43
12=Obj typ override 16=Additional libra	es 13=CR type override aries	s 15=Environment sett	ings
Opt System Type	Type:Description	Target Libra	Ovr/
ope bybeem Type	1990-2000-190100	Live/Prod Accept/QA	Integr/Tst
Dev Sys 4. Dev	Obj: Base application	V43DBASOL V43DBASOA	V43DBASOM
	Obj: Site Gatwick	V43DGATOL V43DGATOA	V43DGATOM
	Obj: Site Glasgow	V43DGLAOL V43DGLAOA	V43DGLAOM
	Obj: Site Liverpool	V43DLIVOL V43DLIVOA	V43DLIVOM
	Obj: Site London	V43DLONOL V43DLONOA	V43DLONOM
	Obj: Group NTH	V43DNTHOL V43DNTHOA	V43DNTHOM
	Obj: Group STH	V43DSTHOL V43DSTHOA	V43DSTHOM
	DB : Base Dev Site	V43DBASDL V43DBASDA	V43DBASDM
Acc Rcv in TST	Obj: Base application	V430BAST02	
	Obj: Site Gatwick	V430BASGT2	
			More
F1=Help F3=Exit F	75=Refresh F9=Cmd F12	=Cancel F16=Update F	24=Messages

Note that object libraries are shown before the database library, which is truncated in the display above. You would need to page down on the display to see the data library for Acc Rcv invoice test system, in this example.

Note also that it is your responsibility to populate the test system libraries. In this example, the library names suggest are copied (or derived from) a production environment.

#### 2.9.3 Deploying to a test system

You can deploy a CR at status \*DEV to one or more configured test systems Work with Change Requests, option 11=Promote. New dialog has been introduced here giving the opportunity of deployment to a test system. If you decline, the dialog will proceed as for a conventional promotion into a SEE/Change environment.

If you accept (Y=Yes) you will receive the Work with Release Distribution display (below) showing the available test systems. Choose your desired test system and press F21 to make an internal delivery of the CR contents.

When deploying a CR in GitHub-enabled application, CHKCR processing is skipped. CR objects are deployed to the test system on an 'as is' basis. This means a CR source may have changed since the last compile, but it is always the last compiled object that is deployed to the test system.

Any database changes made to a test system will be applied in the configured database library and persist even if the test system is cleared down (see section 2.1.4). Corrections to DB changes must be effected by changing the CR definitions and redeploying.

\*BEFORE or \*AFTER programs in the CR are executed when the CR is received into the test system.

THENON THENON Ch. Work	ange Management System 4.6000D with Release Distribution	
Release . : 00037 To Test System	Add optional picture to upload JSON Send Type INTL	
Application . : 1 of 1	V43 Acme Order Entry System	
Type 'X' to select, press En <b>Target Systems</b> Acc Rcv invoice match fix Claims upload API	ter. Dst Target Systems X	Dst
		Bottom
F3=Exit F7=Previous APP F15=Select/Omit CRs F20=Ve	F8=Next APP F9=Cmd F12=Cancel rsion enq F21=Transfer F22=Packaging	F24=Msg

The Work with Release Distribution display shows the test systems as targets and the send type as 'INTL', indicating an internal transfer.

#### 2.9.4 Clearing a test system

Objects placed into a test system remain there until removed.

You can use the new command CLRTSTSYS to clear a test system. It runs from the SEE/Change command line and can remove the contents of a previously deployed CR from a test system, Alternatively, you can remove all deployed objects from a test system.

Clear Test	System (CLRTS	TSYS)
Type choices, press Enter.		
Test System	D01 000099 01	Character value 000001-999999, *ALL 01-99, 00
F3=Exit F4=Prompt F5=Refresh F24=More keys	F12=Cancel	Bottom F13=How to use this display

This command is used on an ad-hoc basis.

### 2.10 DB2 Multisystem Support

IBM allows DB2 Multisystem allowing SQL partitioned tables across multiple systems. See <u>https://www.ibm.com/docs/en/i/7.5?topic=multisystem-db2-overview</u>

This PE now includes support for the DDL syntax that enables SQL tables to be spanned across multiple partitions. While this is not recommended by IBM, it has been added to this PE for compatibility reasons. Further information on DB2 multisystem, overview and partitioned tables can be found through the above link.

### 2.11 GitHub Interface

#### 2.11.1 Introduction

GitHub is a cloud-based service for software development and version control, allowing developers to store and manage their code. It provides bug tracking, software feature requests, task management, and continuous integration for almost any project. The main benefit of GitHub for iSeries is that it enables new developers, who may not have encountered SEU and PDM, to work on iSeries projects using familiar tools.

GitHub is essentially a source repository with change branches, many editors, and third-party IDEs. However, it is not an appropriate CM solution for iSeries objects. For this reason, SEE/Change now contains a GitHub interface that exposes new source editing capabilities, while retaining its proven object management functions. In the following text, it is referred to as 'the interface'.

#### 2.11.2 Overview

To accommodate GitHub the interface extends workflow of the SEE/Change Development Manager (SCDM) as shown in Figure 1 below. In the Figure, the shaded area depicts the new functionality, and in the text references to the numbered workflow elements are parenthesized.

- Each SEE/Change user of the interface must possess a valid GitHub account (preferably at the Team level or higher). The interface maintains a register of known GitHub account holders.
- The interface creates a GitHub repository (repo) for the source of a single application (1) and links it to the application. The repo name can be freely chosen, and such applications are referred to as 'GitHub-enabled'. The interface establishes ownership of the repo and all account holders as collaborators. Existing source can be loaded with an interface command.
- A CR is represented by a branch in the application repo. The interface can create the branch based on the last commit of the initial load (2), with a name derived from the CR description. The repo main branch is updated from the CR branch immediately before the CR attains \*LIV status. This scheme resembles <u>GitHub Flow</u>.



- You can edit CR branch files using a GitHub-compatible editor (e.g. <u>github.dev</u>) or a local Git client established with a remote tracking branch (3). In either case, multiple commits will arise in the CR branch. When convenient, you can retrieve edited source from the branch into the CR library (4) for compilation and further editing with SCDM (5). If you edit members in the CR, you must copy them back to the branch using another interface function (6). Note that in a GitHub-enabled application, conventional source pool retrieval is disabled.
- When you set the CR status to \*TST, the interface ensures the branch and library sources are synchronized. You can remove synchronization errors by repeating the steps (3,4,6), as required. You can then deploy the CR to a test system or promote it through the usual SEE/Change environments.
- Before the CR reaches the \*LIV development environment, you should issue a GitHub PULL (8) request on the CR branch. As a collaborator in the repo, you can then MERGE the branch into main, completing the GitHub Flow cycle mentioned above. You then promote the CR to \*LIV, synchronizing the application's source pools with its repo, and delete the branch. The interface warns if you attempt the promotion before updating the repo's main branch.

• A difficulty could arise if you want to revert the CR, because the equivalent GitHub operations can be problematic. If reversion is anticipated, it is better to delete the CR branch, promote the CR to \*LIV and refresh the repo from the source pools (9). Alternatively, you can avoid reversion by adopting a 'forward fix' strategy, i.e. create a new CR branch correcting any residual errors that you have promoted to \*LIV.

#### 2.11.3 Using SEE/Change with GitHub

When version 4.6000 is installed, a new general parameter @GIT holds the base GitHub URL. This should not need changing.

Your iSeries must have internet access. You can verify this by issuing the command:

PING RMTSYS(API.GITHUB.COM)

You will need to inspect the job log to view the IP replies. Further diagnostics can be obtained by issuing thise command:

TRACEROUTE RMTSYS(API.GITHUB.COM)

Each interface user must possess a GitHub account, a current personal access token (classic PAT). You will require a two-factor authentication mechanism to access the GitHub web client.

#### 2.11.4 Granting SEE/Change users access to GitHub

To use the interface, an enrolled SEE/Change user must also be registered as a GitHub user. To register a GitHub user, take the Configuration Manager's Work with User Enrolment menu option and use F18 to obtain the new Work with GitHub Users display:

2=Change	4=Dele	SEE/Cha W ete 5=Displ	<b>nge Develop ork with Gi</b> ay	ment Env tHub Use	ironment. rs	
Opt User Pr JAMESA _ GILLB _ NATHANN	rofile <	<b>User descri</b> Locate us James Ander Gillian Bro Nathan Wilk	ption er son wn inson			
F1=Help F3	3=Exit	F5=Refresh	F6=Create	F9=Cmd	F12=Cancel	Bottom

Press F6 to obtain the Create GitHub User window below:

: Create GitHub User
: iSeries User <u>USRPRF</u>
:
: GitHub User. GitHub-User-ID
: Token GitHub token this will be 40 Characters.
:
: Enter=Create F12=Previous
· · · · · · · · · · · · · · · · · · ·

You should enter a valid SEE/Change user profile, the corresponding GitHub user account name and PAT (Personal Access Token).

#### 2.11.5 Configuring an application to use a GitHub repo

Each GitHub-enabled application has its own repo, set up via the interface. You will need to provide the repo name and the identity of the GitHub user / organisation that will own the repo. It is the responsibility of the repo owner to implement any GitHub branch protection rules mandated by your organization.

In Work with Application Configuration, a new option 60 (60=GitHub link) signals that the application is GitHub-enabled:



The Repository Name is the GitHub repo that this application will use. It is in free format and up to 40 characters in length. Allowable characters are letters (a-z and A-Z), numbers (0-9), hyphen (-) and period (.). GitHub will replace other characters (including space) with a hyphen.

The Repository Owner must be a GitHub user as described at 2.3.4 above or an organisation. This field is required as the repo is uniquely specified by name and owner/organisation.

Sources are placed in subdirectories of the source file name within GitHub If a source file is empty no corresponding subdirectory is created in the repository. If an empty source file will be targeted by a subsequent CR movement to \*LIV, you should manually create a subdirectory in the repository .main branch.

The repository name and owner are checked on pressing Enter. Unsuccessful completion is indicated by an HTTP response code (typically 404) on the display base line.

Note that in a GitHub-enabled application:

 Source retrieval is done from a CR branch in the repo, not from the local SEE/Change source pools. However, the new workflow maintains the source pools and these can be regarded as an internal backup of the application repo.

- The automatic documentation parameter @DOC is ignored because compiling a retrieved source would update it with documentation information. This would cause the CR source to lose synchronization with the branch source.
- Any CR you create will allow planned concurrent development and retrieval of site and group-specific source.

#### 2.11.6 Initial source load to GitHub

With a repo created and your user registration complete, you can load application sources into GitHub. This begins the workflow of Figure 1 above and the interface provides the single command GITLOAD (1) for this purpose.

You can invoke GITLOAD from the application take on jobs panel or command line e.g.

GITLOAD APPL(ACM) GROUP(\*ALL) SITE(\*ALL)

loads the base, group, and site versions of all source files in GitHub-enabled application ACM into a linked repo. For example, assume the linked repo is named SEE-ACM and the application contains source pools BAS01, GRPGR1 and SITSI1. GITLOAD would then create a subdirectory structure like that shown in Figure 2 below:



As it executes, the command directs HTTP status messages to the display base line. It also generates the spooled print report O#9550, detailing the source files and members that were loaded. Please note that source sequence numbers and amendment dates are removed during loading.

#### 2.11.7 Working with CRs and GitHub

As discussed above, a CR is represented by a branch in the application repo. The linkage is established through the branch name and the CR's descriptive text. A branch is linked to a CR if the branch name contains the CR description. For example, you might use the GitHub web client to create a branch named 'ACM-00004602-File-changes' in the repo of application ACM. The interface would dynamically link that branch to the ACM CR having descriptive text 'File changes'.

Alternatively, you can create a branch for an existing CR with the new option 21 (21=Git crt brn) in Work with Change Requests.

You should create a separate CR for each individual site or group change. These CRs should have the branch-related descriptive text described above. This allows the interface to identify the branch subdirectory where the site and group variations reside,

The GitHub workflow allows you to freely edit application source on a CR branch with any compatible editor (3). Note that you should not edit source in the main branch. This can occur unintentionally, and you should consider establishing a branch protection rule to prevent it.

For compilation, you can load the linked CR with all CR branch changes using Work with Change Requests option 7=Git retrieve (4).

Alternatively, use option 1=Retrieve from within the CR. This also retrieves a changed source file from the CR branch. If there is no such file in the branch, the source is retrieved from the main repo branch. If the source file cannot be found there an HTTP 404 error will be presented. In this case, you should manually create the file in the CR branch and retrieve it using Work with Change Requests options 1 or 7.

After editing in the CR with SCDM, be sure to use Work with Change Requests option 3=Copy to Git (6) to upload the CR source to the linked branch.

When you take Work with Change Requests option 11=Promote, CHKCR will verify the sources in the CR library and the CR branch are synchronized (7). It does this by comparing commit and member amendment timestamps. Therefore, CHKCR will fail if the branch is found to contain an edited file that has not been retrieved / changed since the last retrieve, or a CR source member that has been edited but not copied back to the branch. If CHKCR succeeds, you can deploy the CR to a test system or promote it to a CR environment in the normal way. The synchronization check ensures the interface workflow delivers the same level of object integrity as conventional SCDM operations.

Before promoting a CR to \*LIV on the development machine, you should consider whether reversion will be required. If so, it may be preferable to close the branch and promote the CR to \*LIV. After reversion you can continue working in SCDM. When the CR eventually attains \*LIV status, you can synchronize the application repo using the GITLOAD command (9).

If you do not anticipate reversion, you can issue PULL and MERGE operations on the CR branch, using the GitHub web client (8). When this has been done, you can promote the CR to \*LIV. A warning will be issued if the CR's branch is still open. This ends the enhanced workflow.

#### 2.11.8 Notes

- Repo source files are named after the originating source pool library member, with an extension indicating member type.
- Directory and source file names are in uppercase. These conventions should be followed when creating new repo files, e.g. NEWPROG.RPGLE.
- At this time (April 2024) the SEE/Change RDi feature does not support the GitHub interface or test systems described above. i.e. CR sources can't be retrieved of copied to a GitHub branch through RDi, and a CR can't be deployed to a test system from the RDi feature.
- In version 4.6000, the interface does not support IFS files.

# **3 Software Performance Reports**

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

SPR Log Number	Description						
5914	WRKOBJAUT would fail when there are over 9999 entries						
5917	Dev in MDL/INT SQLRPGLE_S not highlighted when object changed						
5922	DSPCFGAUD accumulates and shows temporary authority changes created during movements. V4.5502+ prevents these audit records from being recorded and removes any existing records.						
5920	SQL source data length restricted to 80 characters, now extended to 122 characters. (source record length 132)						
5918	ENDCFGAUD would leave a trigger program attached to the Thenon system parameter definition file.						
5927	SQL Multisystem tables. Within the CR, the create completes correctly, as does testing of the CR. However, promotion of Multisystem / partition tables fails.						
5928	Version 4.5502 close release failure corrected						
5929	RCVRLS would not tidy the release library if SNDTCPSPLF failed to process (e.g. if the system is not configured to use SNDTCPSPLF or there is a network issue). RCVRLS now continues processing regardless of the SNDTCPSPLF result.						

# 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.com website 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 Special Instructions

When upgrading from version 4.5502 or 4.5503 and work notification are being used (or if you are unsure), notification processing must be ended with command.

#### ENDWRKNTFY

This will end (disconnect) notification processing and is required for the upgrade to version 4.6000 to complete successfully.

Following the upgrade processing, work notifications (if used) must be restarted (reconnect) with command.

#### STRWRKNTFY

#### 4.3 Dependencies

- Must be applied after 4.5500.
- SEE/Change 4.6000 will run on IBM i 7.4 or higher.
- Must be applied to all remote sites? See compatibility chart.

# 5 RDi Plug-in Compatibility Chart

# SEE/Change Rational Developer Feature Compatibility

SEE/Change Server	IDE Version					
Version	RDP 8.x.x.x	RDP 9.x.x.x				
4.5401	1.4.2	1.4.2				
4.5402	1.4.2	1.4.2				
4.5403	N/A	1.4.3				
4.5500	N/A	1.4.3				
4.5501	N/A	1.4.3				
4.5502	N/A	1.4.3				
4.5503	N/A	1.4.3				
4.6000	N/A	1.4.3 **				

\*\* Not compatible with GitHub enabled applications

# 6 SEE/Change Compatibility Chart

#### SEE/Change Release Compatibility Chart

		Development											
		4.5200	4.5201	4.5300	4.5400	4.5401	4.5402	4.5403	4.5500	4.5501	4.5502	4.5503	4.6000
	4.5200	Yes	1	1,2	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
	4.5201	No	Yes	2	2	2	2,3	2,3	2,3	2,3	2,3	2,3	2,3
	4.5300	No	No	Yes	Yes	Yes	3	3	3	3	3	3	3
_	4.5400	No	No	No	Yes	Yes	3	3	3	3	3	3	3
ion	4.5401	No	No	No	No	Yes	3	3	3	3	3	3	3
lot	4.5402	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	4
pd	4.5403	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	4
Pro	4.5500	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	4
_	4.5501	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	4
	4.5502	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	4
	4.5503	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	4
	4.6000	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes
Notes Minimum i5/OS Levels													
Note 1: Yes, however the Alternative ALTER TABLE support will be ignored on production machine 4./							4.5200	V5R3					
Note 2: Yes, however changes to the default object delivery sequence will be ignored on production machine						4.5201	V5R4						
Note 3: Yes, however SSH distribution is not supported. 4.						4.5300	V5R4						
Note 4: Yes, however Extended SQL source files are not supported for distribution 4.						4.5400	V6R1						
							4.5401	V6R1					
·							4.5402	V6R1					
4.5							4.5403	V6R1					
							4.5500	V7R1			2		
						4.5501	V7R3			-0			
4.5						4.5502	V7R3						
4.550						4.5503	V7R4						
4.6000							4.6000	V7R4					

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