



Technical Forum & **17 al 21**
Executive Briefing **Octubre**
2011

Imagine PODER Imagine CAPACIDAD

IBM i 6.1 or 7.1 Upgrade Planning

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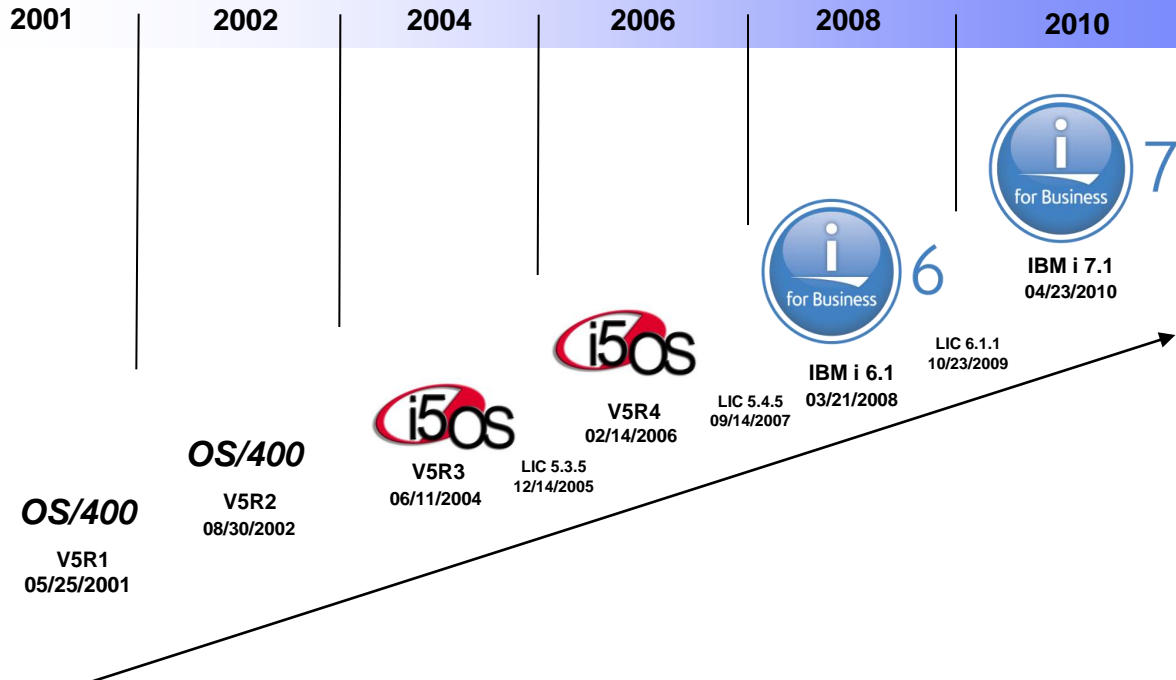
Agenda

IBM i 6.1 , IBM i 7.1 Upgrade Planning

- Introduction
- Planning and Preparing for the Upgrade
- Major Upgrade Planning Tasks
- 'Top 10 Keys to Success'
- Useful Web sites



A Decade of OS enhancements



Which Version are you running ?



V5R3



V5R4

OS/400

V5R1

OS/400

V5R2



IBM i
6.1



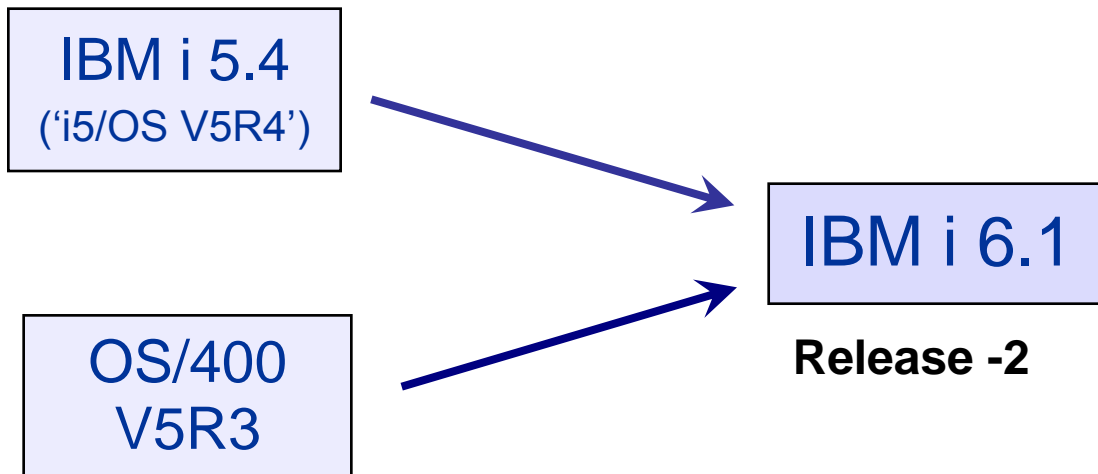
IBM i
7.1

Perhaps
something
earlier ???

How do I get to IBM i 6.1 or IBM i 7.1

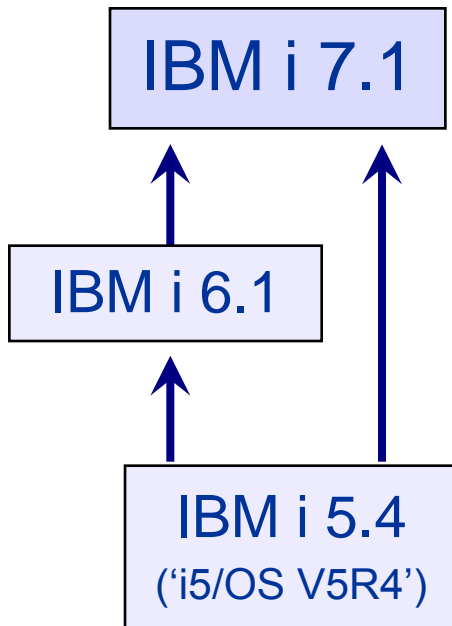


Supported one step software upgrades



Note: Clustering supports only one cluster version difference. An i 6.1 cluster must have a cluster version of 6 before you install i 7.1.

Supported one step software upgrades

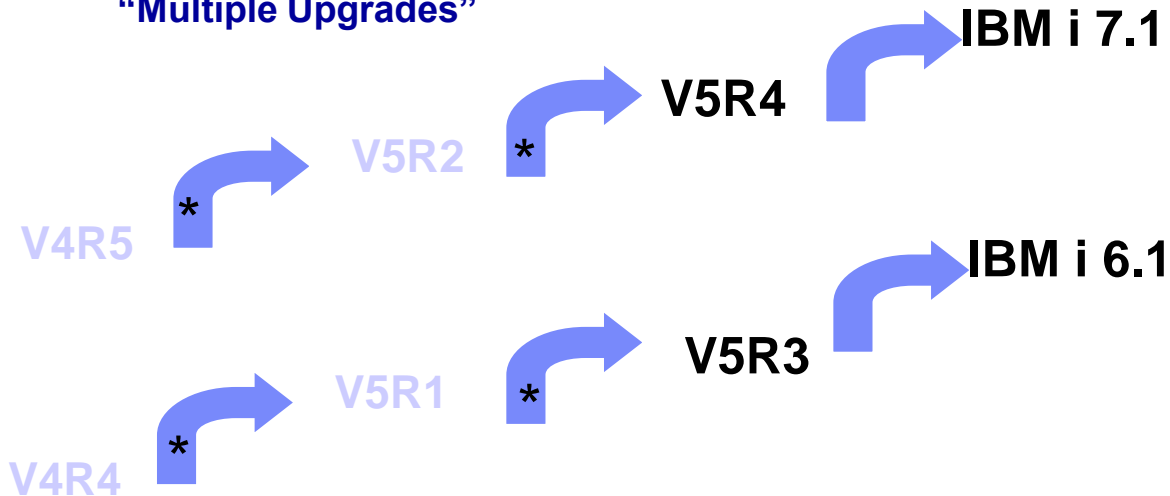


Note: Clustering supports only one cluster version difference. An i 6.1 cluster must have a cluster version of 6 before you install i 7.1.

What if I have a much Earlier Release Installed?

.... How do I get to a Supported IBM i Release

“Multiple Upgrades”



* **Note:** these upgrade paths are no longer formally supported by IBM, so ‘best effort’ support only. Also, you need access to V5R1, V5R2, V5R3, or V5R4 media.

IBM i, i5/OS, and OS/400 release upgrade support

Every release of IBM i, i5/OS, and OS/400 software has a finite support period. The End of support date for each software release is announced either with the initial release announcement or twelve months prior to becoming effective. When a software release reaches the End of support date, direct upgrades to subsequent releases are only available for a limited time.

Monitor the End of support dates in the table below to avoid the following, potentially costly, situations.

- If a direct upgrade to the latest software release is not available, you need to conduct a multiple-step upgrade. This requires upgrading to an interim release to enable upgrading to the latest release.
- If all direct upgrades to subsequent software releases have been withdrawn, there is no supported way to upgrade the system. The only alternative is to perform a labor-intensive manual upgrade, which typically requires hiring custom services.

The following table provides information on supported releases and subsequent upgrades to newer releases. A dash (-) in the column indicates a direct upgrade to the specified release is not available.

Release upgrade and support information						
Release ¹	End of support	Upgrade to V5R2	Upgrade to V5R3	Upgrade to V5R4	Upgrade to 6.1	Upgrade to 7.1
V5R1	30 Sep 2005	Withdrawal date 01 Oct 2005	Withdrawal date 04 Jan 2008	-		
V5R2	30 Apr 2007	-	Withdrawal date 04 Jan 2008	Withdrawal date 27 May 2011		
V5R3	30 Apr 2009	-	-	Withdrawal date 27 May 2011	Withdrawal date to be announced	
V5R4	To be announced	-	-	-	Withdrawal date to be announced	Withdrawal date to be announced
IBM i 6.1	To be announced	-	-	-	-	Withdrawal date to be announced
IBM i 7.1	To be announced	-	-	-	-	-

<http://www-947.ibm.com/systems/support/i/planning/software/i5osschedule.html>

IBM i – i5/OS -- OS/400 Release Life Cycle

Release life cycle						
Release	Announce date*	GA date*	Announce End of Marketing date*	Effective End of Marketing date*	End of Program Support*	Program Support Extension Available*
Rel 1	06/21/1988	08/26/1988				
V2R1	04/22/1991	05/24/1991		03/12/1993	06/30/1994	
V2R1.1	04/22/1991	03/06/1992		03/12/1993	06/30/1994	
V2R2	02/18/1992	09/18/1992		09/06/1994	03/31/1995	
V2R3	02/16/1993	12/17/1993		12/29/1995	05/31/1996	
R7.5 SSP	02/20/1996	03/08/1996	02/09/1999	02/25/2000	05/31/2000	
V3R0.5	05/03/1994	06/03/1994	02/11/1997	05/16/1997	05/31/1997	
V3R1	05/03/1994	11/25/1994	02/11/1997	05/16/1997	10/31/1998	
V3R2	06/04/1996	06/21/1996	02/10/1998	02/25/2000	05/31/2000	
V3R6	06/21/1995	12/22/1995	08/19/1997	11/21/1997	10/31/1998	
V3R7	09/03/1996	11/08/1996	09/01/1998	12/01/1998	06/30/1999	
V4R1	08/19/1997	08/29/1997	02/09/1999	02/25/2000	05/31/2000	
V4R2	02/10/1998	02/27/1998	02/09/1999	02/25/2000	05/31/2000	01/31/2001
V4R3	09/01/1998	09/11/1998	02/15/2000	12/29/2000	01/31/2001	
V4R4	02/09/1999	05/21/1999	02/13/2001	05/31/2001	05/31/2001	11/30/2001
V4R5	05/22/2000	07/28/2000	02/12/2002	07/02/2002	07/31/2002	12/31/2002
V5R1	04/23/2001	05/25/2001	07/29/2003	11/21/2003	09/30/2005	
V5R2	06/04/2002	08/30/2002	02/08/2005	10/01/2005	04/30/2007	
V5R3	05/04/2004	06/11/2004	02/06/2007	01/04/2008	04/30/2009	Note 3 Note 2
V5R4	01/31/2006	02/14/2006	01/27/2009	05/27/2011	Notes 1, 2	
6.1.x	01/29/2008	03/21/2008			Note 1	
7.1	04/13/2010	04/23/2010			Note 1	

* All dates are shown in MM/DD/YYYY format.

Note 1: End of program support date will be announced with at least 12 months notice prior to the effective termination date.

Note 2: Includes both Machine Code Level V5RxB0 and V5RxB5.

Note 3: IBM Service Extension Offering for i5/OS and OS/400 is available for U.S. Customers.

<http://www-947.ibm.com/systems/support/i/planning/upgrade/suptschedule.html>

IBM i System Support

Servers	IBM i 5.4	IBM i 6.1	IBM i 7.1
POWER7# PS700, 701, 702, 710, 720, 730, 740, 750, 770, 780, 795		✓	✓
POWER6 JS12, 22, 23/43, 550* 560		✓	✓
POWER6 520, 550*, 570, 595	✓	✓	✓
POWER5+ 515, 525	✓	✓	✓
POWER5 520, 550, 570, 595	✓	✓	✓
800, 810, 825, 870, 890	✓	✓	
270, 820, 830, 840	✓		

<http://www-947.ibm.com/systems/support/i/planning/upgrade/osmapping.html>

* Specific models # with LIC 6.1.1

IBM i, i5/OS, & OS/400 Release support

Power and System i model to operating system level mapping														
Type	Model	V3 R6	V3 R7	V4 R1	V4 R2	V4 R3	V4 R4	V4 R5	V5 R1	V5 R2	V5 R3	V5 R4	6.1	7.1
9401	150		x	x	x	x	x	x	x	x				
9406	170				x	x	x	x	x	x	x			
9406	250							x	x	x	x			
9406	270							x	x	x	x	x		
9402	400	x	x	x	x	x	x	x	x					
9402	436		x	x	x	x	x	x	x					
9406	500	x	x	x	x	x	x	x	x					
9402	40S	x	x	x	x	x	x	x	x					
9406	50S	x	x	x	x	x	x	x	x					
9406	510	x	x	x	x	x	x	x	x					
9407	515											x	x	x
9407-M15	Power 520											x ¹	x	x
9405	520										x	x	x	x
9406	520										x	x	x	x
9408-M25	Power 520											x ¹	x	x
9406	525											x	x	x
9406	530	x	x	x	x	x	x	x	x					
9406	53S	x	x	x	x	x	x	x	x					
7998-60X	JS12 Blade												x	x
7998-61X	JS22 Blade												x	x
7778-23X	JS23 Blade												x	x
8406-70Y	PS700												x ²	x

Important: Use the **IBM Hardware Pre-req Web site tool** for the latest regarding minimum software levels needed for hardware models and/or features: http://www-912.ibm.com/e_dir/eServerPrereq.nsf

<http://www-947.ibm.com/systems/support/i/planning/upgrade/osmapping.html>

POWER5, POWER6 or POWER7 Servers Upgrade Planning Guideline with HMC and/or SDMC

In general, upgrade Firmware & Software in the following order:
 (“Work from the outside in”)

- HMC (SDMC) Firmware --- See HMC Planning Site:
<http://www-933.ibm.com/support/fixcentral/>

Fix Central

Fix Central provides fixes and updates for your system's software, hardware, and operating system.

Select the product below. When using the keyboard to navigate the page, use the **Alt** and **down arrow** keys to navigate the selection lists.

For additional information, click on the following link.

[Getting started with Fix Central](#)

Product Group

Power

Product

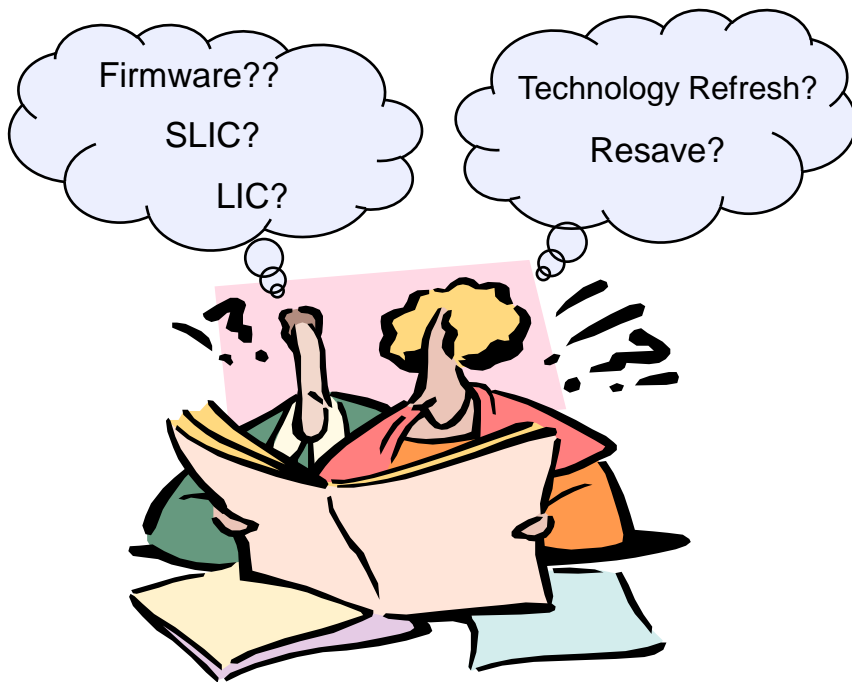
Firmware and HMC

- Server Firmware Sites
 - ❖ Systems with an HMC
http://www-912.ibm.com/s_dir/slkbases.nsf/ibmscdirect/E58D7BBF0EAC9A2786256EAD005F54D8
- Plan for which OS level runs on top of which levels of firmware/hardware
 - ❖ IBM Prerequisite Web site: http://www-912.ibm.com/e_dir/eserverprereq.nsf
 - ❖ IBM i 5.4 <http://publib.boulder.ibm.com/infocenter/iseriess/v5r4/topic/books/sc415120.pdf>
 - ❖ IBM i 6.1 <http://publib.boulder.ibm.com/infocenter/iseriess/v6r1m0/topic/rzahc/sc415120.pdf>
 - ❖ IBM i 7.1 <http://publib.boulder.ibm.com/infocenter/iseriess/v7r1m0/topic/rzahc/sc415120.pdf>

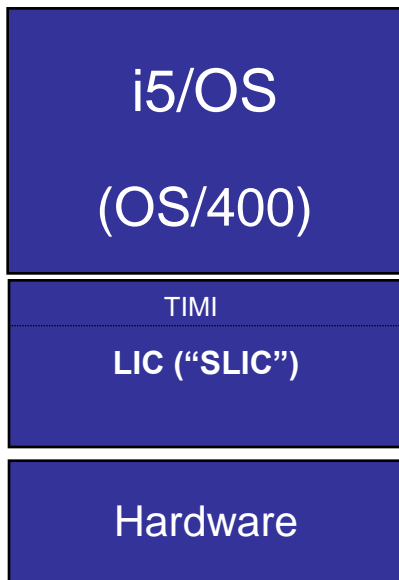


Introduction – IBM i Upgrade Planning

“First things first ... some terminology”



“First things first Pre-POWER5”



i5/OS (V5R3 or V5R4)

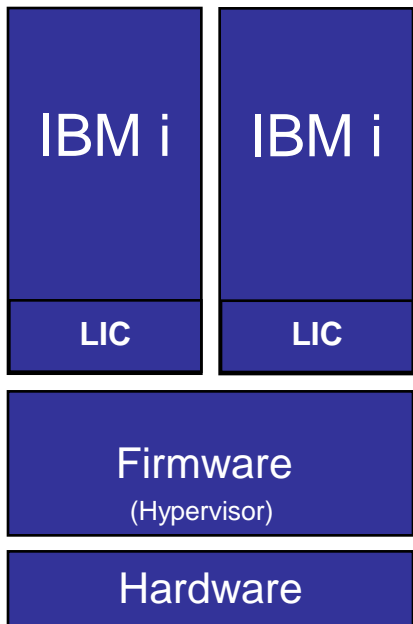
LIC: Licensed Internal Code (also informally referred to as SLIC (System LIC) in the past

- Layered architecture below the machine interface (MI)
- Provides functions including storage management, pointers and addressing, program management, etc.
- TIMI – sub component of LIC
 - ❖ Technology Independent Machine Interface
 - ❖ High-level machine instruction set and application programming interface

System Firmware

- Microcode stored on the service processor

“And then came POWER5, POWER6, POWER7....”



IBM i (previously known as i5/OS – OS/400)

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System Firmware

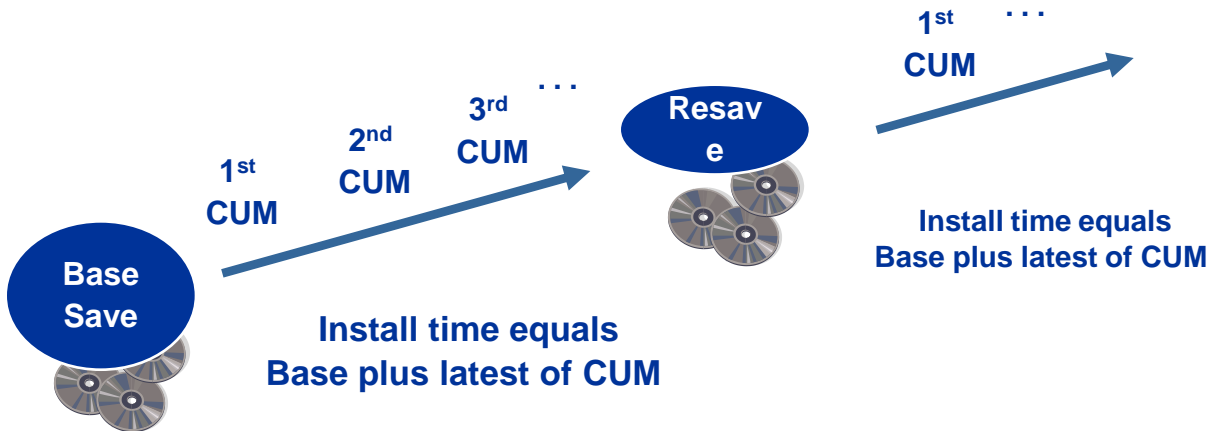
- Microcode stored on the service processor

What is a Resave?

Redistribution of LIC and/or IBM i Operating System

Provides a new level of install media

- for new hardware (e.g. new I/O devices or newly announced models)
- A reduces total install time by reducing the time to install cumulatives PTF packages to install Cumulative packages



What is a Resave

<http://www-947.ibm.com/systems/support/i/planning/resave/index.html>

Overview

IBM i 7.1

IBM i 6.1

IBM i 5.4

More information

Resaves are created by PTFs being permanently applied and new install media is created. Each Resave goes through significant install and regression testing to ensure optimal system quality.

Situations where a customer should use the Resave media include:

- when a new partition containing newly purchased hardware is to be installed
- when preparing to upgrade to new processor models or features
- when using an alternative IPL device for recovery for new processor models or features

To determine the minimum Resave levels needed for hardware refer to the [IBM Prerequisite tool](#).

Overview

IBM i 7.1

IBM i 6.1

IBM i 5.4

More information

This page contains the latest IBM i 7.1 Resave media information.

IBM i 7.1 Resave history (with 7.1.0 Machine Code)

Resave release date ¹	Description	5770.999 Resave Level Marker PTF	5770.SS1 Resave Level Marker PTF
05/13/2011	IBM i 7.1 Technology Refresh ² 2 (TR2) - Support for new hardware features announced on 12 April 2011	RS-710-C RE11067	RS 710-10 AP11067("BASE") RS00106 (Option 0003) ³
09/10/2010	IBM i 7.1 Technology Refresh ² 1 (TR1) - Support for new POWER7 hardware and other features announced on 17 August 2010	RS-710-B RE10187	RS 710-00 AP10070
04/23/2010	IBM i 7.1 GA	RS 710-A RE10084	RS 710-00 AP10070

¹ All dates are shown in MM/DD/YYYY format.

Determining the Required Resave Level? POWER7 Prereq

IBM Systems support

BladeCenter

Power

System i

System p

System x

System z

System Storage

Systems networking

System Blue Gene

IntelliStation Pro

IBM Monitors

Systems Management
softwareHardware options and
upgrades

Related links

- Warranty and licenses
- developerWorks
- alphaWorks
- IBM Business Partners

IBM Prerequisite

https://www-912.ibm.com/e_dir/eserverprereq.nsf

Feature Prerequisites

POWER5 & POWER6 Systems

POWER7 Systems

Software



The IBM Prerequisite site provides you with compatibility information for hardware features. This tool helps you to plan a successful system upgrade by providing you with the prerequisite information for features you currently have or plan to add to your system.

To begin your search, select the Hardware or Software tab.

Visit the [IBM Systems Hardware Information Center](#) for the latest information about planning, upgrading, installing hardware and software, getting fixes, and more.

POWER7 Prereqs

https://www-912.ibm.com/e_dir/eserverprereq.nsf

IBM Prerequisite

Feature Prerequisites

POWER5 & POWER6 Systems

POWER7 Systems

Software

Specify a feature code to search for, or search for multiple features by selecting a machine type and model from the list provided.

Machine Type-Model:

Feature Code:

Go

Machine Type-Model:

Feature Code:

Go

Search results

Feature code	Machine type - Model	Feature Description
0551	8202-E4B, 8205-E6B, 8231-E2B, 8233-E8B, 8236-E8C, 9117-MMB, 9119-FHB, 9179-MHB	19 inch, 1.8 meter high rack
0553	8202-E4B, 8205-E6B, 8231-E2B, 8233-E8B, 8236-E8C, 9117-MMB, 9119-FHB, 9179-MHB	19 inch, 2.0 meter high rack
0555	8202-E4B, 8205-E6B, 8231-E2B, 8233-E8B, 9117-MMB, 9119-FHB, 9179-MHB	19 inch, 1.3 meter high rack
1103	8202-E4B, 8205-E6B, 8233-E8B	USB Internal Docking Station for Removable Disk Drive
8350	8202-E4B, 8231-E2B	4-core 3.0 GHz POWER7 Processor Module
8351	8202-E4B	6-core 3.0 GHz POWER7 Processor Module
8352	8202-E4B	8-core 3.0 GHz POWER7 Processor Module

POWER7 Prereqs

Feature prerequisite information

Machine type-model(s) supported	8202-E4B, 8231-E2B
Feature code	8350
Description	4-core 3.0 GHz POWER7 Processor Module
Initial feature announce date	08/2010
Information last updated	07 Sep 2010 02:14 PM
Other information	

Question:

How do I find out what level my system or LPAR has installed ?

Answer: Via marker PTFs

OS information

Code type/OS	Version/Release	Fix level	Other information
Server Firmware	Base Server Firmware Level for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: FW 7.2.0	AL720_0xxx, AM720_0xxx, AH720_0xxx	
HMC Firmware	Base HMC Firmware Level for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: V7R7.2.0M0	MHxxxxx	
AIX Version 7.1	Base AIX 71 Level for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: 7100-00		
AIX Version 6.1	Base AIX 61 Level for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: 6100-06		
AIX 5L Version 5.3	Base AIX 5.3 Levels for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: 5300-12 SP1, 5300-11 SP5, 5300-10 SP5. Planned availability September 30, 2010		
IBM i 6.1	Base IBM i 6.1 Level for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: IBM i 6.1 with i 6.1.1 machine code - i 6.1.1: RS610-10 OS & RS611-C LIC	C0215610	
IBM i 7.1	Base IBM i 7.1 Level for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: IBM i 7.1 with i 7.1.0 machine code: RS710-00 OS & (RS710-B LIC or Technology Refresh 1 (PTF Group SF99707))	C0229710	
SLES	Base SUSE Linux Enterprise Server Levels for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: SLES 11 SP1, SLES 10 SP3		
RHEL	Base Red Hat Enterprise Linux for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: RHEL 5.5		
PowerVM Virtual I/O Server	Base VIOS Level for 8231-E2B, 8202-E4B, 8205-E6B and 9119-FHB: VIOS 2.2		

Determining Resave Level Installed (via Marker PTFs)

IBM i 6.1 Resave history (with 6.1.0 Machine Code)			
Resave release date ¹	Description	5761-999 Resave Level Marker PTF	5761-SS1 Resave Level Marker PTF
10/23/2009	Support for new hardware	RS-610-G RE09202	RS 610-10 AP09202
05/15/2009	Support for new hardware	RS-610-F RE09056	RS 610-00 AP07348
11/21/2008	Support for new hardware	RS-610-E RE08245	RS 610-00 AP07348
08/22/2008	Support for new hardware	RS-610-D RE08168	RS 610-00 AP07348
06/06/2008	Post GA Resave	RS 610-C RE08109	RS 610-00 AP07348
04/18/2008	Support for new hardware	RS 610-B RE08043 or RE08099	RS 610-00 AP07348
03/21/2008	IBM i 6.1 GA	RS 610-A RE07348	RS 610-00 AP07348

¹ All dates are shown in MM/DD/YYYY format.

IBM i 6.1 Resave history (with 6.1.1 Machine Code)			
Resave release date ¹	Description	5761-999 Resave Level Marker PTF	5761-SS1 Resave Level Marker PTF
09/10/2010	Support for new POWER7 hardware and other features announced on 17 August 2010	RS-611-C RE60173	RS 610-10 AP09202

<http://www-947.ibm.com/systems/support/i/planning/resave/v6r1.html>

Determining Resave Level Installed

Use DSPPTF to check if the following required Fix Level/CUM and Resave level are installed (for our example)

- IBM i 6.1 RS610-00 OS and RS610-E LIC --- AP07348 (OS Marker PTF) and RE08245 (LIC Marker PTF)
- Fix Level (CUM) C8288610 -- Use DSPPTF LICPGM(5761SS1)

Session A [24 x 80]

File Edit View Communication Action

MAIN

Select one of the following:

1. User tasks
2. Office tasks
3. General system tasks
4. Files, libraries, and f
5. Programming
6. Communications
7. Define or change the su
8. Problem handling
9. Display a menu
10. Information Assistant o
11. System i Access tasks
90. Sign off

Selection or command
==> `dspptf licpgm(5761ss1)`

Product ID : 5761SS1
IPL source : ###MACH##
Release of base option : V6R1M0 L00

Type options, press Enter.
5=Display PTF details 6=Print cover letter 8=Display cover letter

Opt ID	Status	IPL Action
TC09111	Temporarily applied	None
TC08365	Permanently applied	None
TC08288	Permanently applied	None
TC08190	Permanently applied	None
TC08127	Permanently applied	None
TC08064	Superseded	None
TC07355	Superseded	None

F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=Information Assistant
F23=Set initial menu

MA a 20/029
I902 - Session successfully started

Determining Resave Level Installed

Use DSPPTF to check if the following required Fix Level/CUM and Resave level are installed (for our example)

- Fix Level (CUM) C8828610 -- Use DSPPTF LICPGM(5761SS1)
- IBM i 6.1 RS610-00 OS and RS610-B LIC ---
AP07348 (OS Marker PTF) and RE08245 (LIC Marker PTF)

Session A - [24 x 80]

File Edit View Communication Actions Window Help

Display PTF Status

Product ID : 5761999 System: ATS
 IPL source : ##MACH#B
 Release of base option : V6R1M0 L00

Type options, press Enter.
 5=Display PTF details 6=Print cover

Opt	PTF ID	Status	IPL Action
-	RS00080	Permanently applied	None
-	AP07348	Permanently applied	None
-	AP07917	Permanently applied	None

F3=Exit F11=Display alternate view F12=Cancel

Session A - [24 x 80]

File Edit View Communication Actions Window Help

Display PTF Status

Product ID : 5761999 System: ATS
 IPL source : ##MACH#B
 Release of base option : V6R1M0 L00

Type options, press Enter.
 5=Display PTF details 6=Print cover letter 8=Display cover letter

Opt	PTF ID	Status	IPL Action
-	TL08127	Temporarily applied	None
-	TL08064	Superseded	None
-	TL07355	Superseded	None
-	RE08043	Permanently applied	None
-	RE07348	Permanently applied	None
-	RE07317	Permanently applied	None
-	QLL2924	Permanently applied	None
-	MF45006	Save file only	None

F3=Exit F11=Display alternate view F17=Position to F12=Cancel

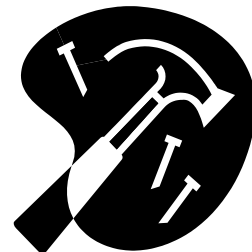
13/003

So... required Fix Level (CUM) is installed, but we need a new Resave level installed.

Planning and Preparing for the Upgrade



“Top 3 Tools” -- Upgrade Planning



1.) IBM Information Center

2.) IBM i Planning Web Site



3.) IBM Pre-Upgrade Verification tool

IBM Information Centers

<http://publib.boulder.ibm.com/series/>

POWER7,
POWER6,
POWER5,
HMC, SDMC...

IBM i
(i5/OS)

Welcome Mr. Tracy Smith [Not you?] [IBM Sign in]

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Finders and advisors

- [API finder](#)
- [CL command finder](#)
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- [Journal entry finder](#)
- [System value finder](#)
- [SQL message finder](#)
- [TCP/IP troubleshooter](#)
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This information center is built on Eclipse™ (www.eclipse.org).

IBM i for Power Systems.... Planning Web Site

<http://www-03.ibm.com/systems/i/>

IBM Systems >

IBM i

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Power is performance redefined

New announcements extend Watson's POWER7 DNA



Smarter Computing

A new computing model is changing the rules of IT



Putting Watson to work

Watson's success in the Jeopardy! challenge was inspiring, but the work is just beginning



Power of i

Colin Parris, VP of Power Systems, talks about the future of IBM i



Zend Server and Studio enhancements (link resides outside of ibm.com)
New features and prices

What we offer

- About IBM i
- New i 7.1 enhancements
- IBM i Solution Editions
- Rational solutions for i
- PHP
- Web Services
- [DB2 & DB2 Web Query](#)
- Availability with PowerHA
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- Unified Communications and Collaboration
- Storage Solutions
- Integration with BladeCenter and System x
- Virtualization with IBM i
- Performance Management
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- Advantages

IBM i buzz

"#IBMI Latest & Greatest" starts in 10 mins #IBMTechu - Room Glimmer 3

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Priority code:
101AR13W

Client stories

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Consolidates to Power, delivers better quality services to business units
- **Windows to Power migration helps NACG halve IT costs!**
NACG halves IT costs; Migrates Windows to Power

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→ Leading IT analyst Brad Day, discusses the importance of business architecture led technology decisions

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An Executive Brief

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- Voucher registration
- Upgrade planning



System i Planning → Migrations and Upgrades

<http://www-947.ibm.com/systems/support/i/planning/migrationupgrade.html>

<p>IBM Systems support</p> <ul style="list-style-type: none"> BladeCenter Power System i  Support search Register Feedback System p System x System z System Storage Systems networking System Blue Gene IntelliStation Pro IBM Monitors Systems Management software Hardware option upgrades 	<h2>Planning</h2> <p>Planning Upgrade planning</p> <ul style="list-style-type: none"> Systems management Installation and setup Migration and upgrades Performance and capacity Maintenance <p>Upgrade planning information</p> <p>This site provides information on IBM System i products or features which may not be supported in future releases of IBM i and i5/OS® operating system or on future product offerings. Information on planned product withdrawals and IBM i, i5/OS, and OS/400 release-specific support is included.</p> <h3>Hardware and software upgrade information</h3> <h4>Customized upgrade planning checklists</h4> <p>Use an interactive interview to create a custom planning checklist tailored to a specific hardware or feature upgrade, migrate data from one server to another and plan for a i5/OS upgrade. The customized upgrade planning checklists will help you create a task list specific to your upgrade.</p> <ul style="list-style-type: none"> Version 6 Release 1 / IBM i 6.1 Version 5 Release 4 Version 5 Release 3 <h4>Hardware upgrade information</h4> <ul style="list-style-type: none"> IBM Prerequisite Upgrade from 8x to 5xx Feature upgrades Hardware Management Console (HMC) Using the HMC Web-based user interface <h4>V6R1 Load source upgrade</h4> <ul style="list-style-type: none"> Upgrade load source disk unit with device parity protection 	<h3>Additional resources</h3> <ul style="list-style-type: none">  Entitled Software Support (including License keys) → IBM Redbooks for System i → IBM i Storage Solutions → Printers → System i and IBM i Information Center → IBM Systems Information Centers <h3>Translate my page</h3> <p>Select a language <input type="button" value="v"/></p> <p>→ Translate</p>
<p>Related links</p> <ul style="list-style-type: none"> Warranties and licenses developerWorks alphaWorks IBM Business Partners 		

Migrations & Upgrades → Upgrade Planning Info.

<http://www-947.ibm.com/systems/support/i/planning/upgrade/index.html>



Upgrade planning

Planning

Upgrade planning

[IBM i 7.1](#) | [IBM i 6.1](#) | [IBM i 5.4](#) | [Future Software/Hardware](#) | [Release life cycle](#)

This site provides information on Power systems running the IBM i operating system and products or features which may not be supported in future releases of IBM i or on future product offerings. This site is intended to provide advanced planning information. Clients may choose to use this information to plan future solutions as they enhance, upgrade or replace their servers with new operating system releases and/or hardware offerings.

The information on this site provides insight into IBM's current plans and directions and is subject to change or withdrawal without notice and may contain errors or omissions.

Additional information

[Hardware and software upgrade information](#)

Locate information for migrating or upgrading your system, capacity planning, available services, maintenance planning, product considerations, news and announcements.

[IBM i software product lifecycle dates](#)

Information about IBM software products which have either reached End-of-Support, or have announced End-of-Support.

[Hardware model availability](#)

Locate information on the lifespan of Power Systems, System i, iSeries, and AS/400 models. The model life begins at initial availability and ends with the withdrawal of maintenance support for the model.

[IBM i, i5/OS and OS/400 level mapping](#)

This table indicates which releases of IBM i, i5/OS or OS/400 are supported by each of the Power Systems or System i models.

Upgrade Planning Info. → IBM i 6.1

<http://www-947.ibm.com/systems/support/i/planning/upgrade/v6r1/index.html>

IBM Systems > IBM Systems support > System i > Planning >

Upgrade planning

Planning to upgrade to IBM i 6.1

[Planning](#) | **Upgrade planning**

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Planning to upgrade to IBM i 6.1

- Program conversion FAQs
- [Software](#)
- [Hardware](#)
- [Statements of direction](#)
- [Planning statements](#)
- [IBM i 6.1](#)

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- [Client information about ISVs who support IBM i applications](#)
- [IBM i for ISVs](#)

Additional resources

- [Entitled Software Support \(including License keys\)](#)
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Upgrade Planning Info. → IBM i 7.1 → Software

<http://www-947.ibm.com/systems/support/i/planning/upgrade/v7r1/software.html>

IBM Systems support

BladeCenter

Power

System i

Support search

Register

Feedback

System p

System x

System z

System Storage

Systems networking

System Blue Gene

IntelliStation Pro

IBM Monitors

Systems Management software

Hardware options and upgrades

Upgrade planning

Planning to upgrade to IBM i 7.1

Planning

Upgrade planning

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 [IBM i 6.1](#) |
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 [Future Software/Hardware](#) |
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Planning to upgrade to IBM i 7.1

- [Software](#)
- [Hardware](#)
- [Statements of direction](#)
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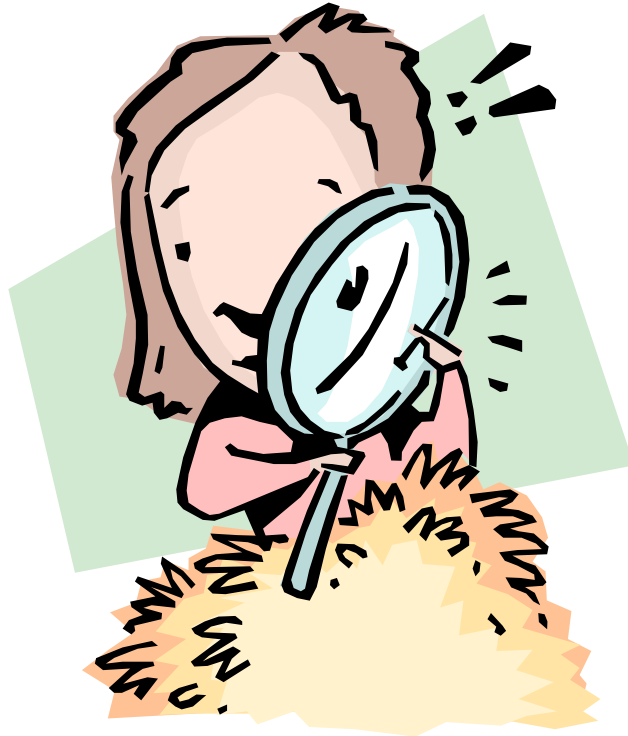
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- [IBM i for ISVs](#)

Additional resources

- [Entitled Software Support \(including License keys\)](#)
- [IBM Redbooks for System i](#)
- [IBM i Storage Solutions](#)
- [Printers](#)
- [System i and IBM i Information Center](#)
- [IBM Systems Information Centers](#)

“Needle in a haystack?”



Prefer a hardcopy? ... PDFs are available

<http://publib.boulder.ibm.com/infocenter/iserics/v7r1m0/topic/rzahc/rzahc1.htm>

- IBM i 7.1 Information Center
 - About IBM i information
 - Availability
 - Basic system operations
 - Blade and System x
 - Connecting to your system
 - Database
 - e-business and Web serving
 - Files and file systems
 - IBM i and related software

[IBM i 7.1 Information Center](#) > [IBM i and related software](#) > [Installing, upgrading, or deleting IBM i and related software](#)

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IBM i
 IBM i and related software
 Installing, upgrading, or deleting IBM i and related software

7.1

SC41-5120-11

- Options X
- Contents
- What's new for IBM i 7.1
 - Chapter 1. Installing, upgrading, o
 - Chapter 2. Fast path for software
 - Chapter 3. Concepts for software
 - Chapter 4. Checklist: IBM i softwa
 - Chapter 5. Preparing to upgrade o
 - Chapter 6. Upgrading or replacing
 - Chapter 7. Upgrading or replacing
 - Chapter 8. Checklist: Completing
 - Chapter 9. Replacing Licensed Int
 - Chapter 10. Checklist: IBM i softw
 - Chapter 11. Installing IBM i and re

Migrations & Upgrades → SW Upgrades → V7R1 Info. → Fastpath....

<http://publib.boulder.ibm.com/infocenter/series/v7r1m0/topic/rzahc/requiredfixesupgrade.htm>

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 - PDF file for Installing, upgrading, or deleting IBM i software
 - Fast path for software installation, upgrade, or deletion**
 - Concepts for software installation
 - Checklist: IBM i software upgrade or replacement
 - Upgrading or replacing IBM i and related software
 - Replacing Licensed Internal Code and software
 - Checklist: IBM i software installation

IBM i 7.1 Information Center > IBM i and related software > Installing, upgrading, or deleting IBM i and related software > Upgrading or replacing IBM i and related software > Preparing to upgrade or replace IBM i software > Preparing the system for IBM i software upgrade or replacement > Reviewing software PTF (fix) requirements

Send feedback

Installing PTFs and analyzing your system for object conversions (V5R4 to IBM i 7.1 upgrade)

»When or after you upgrade your system from V5R4 to IBM® i 7.1, conversions occur on program objects in libraries, Java™ programs in directories, spooled files, and integrated file system names in file systems that are not case-sensitive.«

To have adequate time to prepare your system for the upcoming conversions, allow extra time before the upgrade to download planning PTFs for object conversion, analyze your system, and take necessary proactive steps for a successful upgrade. Such steps might include recompiling existing programs or, if programs cannot be converted, acquiring a new version from your software provider. You also might need to plan for possible down times.

Note: If this type of preparation is normally done by a third party, contact your application provider for assistance.

The planning PTFs for object conversion that you download include information and tools to help you prepare for the upgrade. The release level from which you are upgrading determines the PTFs that you use. These PTFs include the Analyze Object Conversion (ANZOBJCVN) command, which is used to collect information about the following objects:

Migrations & Upgrades → SW Upgrades → V7R1 Info. → Fastpath....

<http://publib.boulder.ibm.com/infocenter/series/v7r1m0/topic/rzahc/fastpathrzahc.htm>

- Availability
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- Blade and System x
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 - IBM i client partition considerations
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 - What's new for IBM i 7.1
 - PDF file for Installing, upgrading, or deleting IBM i and related software
 - Fast path for software installation, upgrade, and deletion tasks**
 - Concepts for software installation
 - Checklist: IBM i software upgrade or replacement readiness
 - Upgrading or replacing IBM i and related software
 - Replacing Licensed Internal Code and IBM i of the same version and release
 - Checklist: IBM i software installation readiness
 - Installing IBM i and related software on a new system or logical partition
 - Changing the primary language of your system or logical partition
 - Deleting software related to IBM i
 - Troubleshooting software installation problems
 - IBM i software reference
 - Related information for Installing, upgrading, or deleting IBM i and related software
- Maintaining and managing IBM i and related software
- Distributing software

Fast path for software installation, upgrade, and deletion tasks

Use this information as a shortcut to help you determine the group of tasks you need to perform for your particular IBM® i installation.

Proper planning for hardware is crucial for the successful installation or upgrade of the operating system. Go to the [IBM Systems Hardware](http://publib.boulder.ibm.com/infocenter/systems/scope/hw/index.jsp) (publib.boulder.ibm.com/infocenter/systems/scope/hw/index.jsp) and review the planning, installing, and console information for your system.

Attention: An Operations Console directly attached to the system is not supported in IBM i 7.1. If you currently have an Operations Console, you must change the console before you start to install or upgrade the IBM i software on your system. Failure to do so will result in unpredictable results. For more information about changing consoles, see [Changing consoles](#) in the IBM systems Hardware Information Center.

If you requested electronic software delivery, refer to the [Electronic software delivery](#) Web site (www.ibm.com/servers/support/solutions/downloadinfo.html).

Task	Steps
Upgrading a release on a system or logical partition (either from V5R4 or V6R1 to IBM i 7.1)	<ol style="list-style-type: none"> Preparing to upgrade or replace IBM i software Use one of the following methods to upgrade or replace an IBM i release: <ul style="list-style-type: none"> • Upgrading or replacing software using automatic installation • Upgrading or replacing software using manual installation Installing additional licensed programs Installing a secondary language Review Checklist: Completing the IBM i upgrade or replacement

Replacing Licensed Internal Code and

Replacing Licensed Internal Code and IBM i of the same version and release

Migrations & Upgrades → SW Upgrades → i7.1 Info. Center → What's New...

Info Center Tip: Bookmarking a favorite section in Internet Explorer 6

Search: GO [Search scope:](#) All topics

Contents

IBM i 7.1 Information Center

- About IBM i information
 - Overview and what's new
 - PDF files and manuals
 - Information FAQ
 - Information updates

IBM i 7.1 Information Center > [About IBM i information](#)

Send feedback

IBM i information overview and what's new

Read this for an overview of the IBM® i information content, as well as a listing of the release. You can also find notices for hardware and software topics.

In the IBM i Information center, your source for technical information about the operating system. The information center is your starting point for all IBM i information.

For the new functions for the release is found on the [System i® Technical Web site](#).

The Information Center is powered by the [IBM i Information Center](#). For more information about [the main categories and their n](#)

Information Center main categories and what's new for IBM i 7.1

Tip: For Firefox, right mouse on any topic or bread crumb and choose "Bookmark This Link"

General Web Document Security Details Previous Versions

IBM i information overview and what's new

URL: <http://www.ibm.com/systems/v7r1m0/topic/rzahg/rzahgicoverview.html>

Shortcut key: None

Visits: 6

Change Icon...

IBM Pre-Upgrade Verification Tool



What is the IBM Pre-Upgrade Verification Tool?

- **‘As-is’** tool developed by IBM to help ensure a successful IBM i (i5/OS) upgrade
 - Tool checks to see if key required pre-upgrade steps have been successfully completed
 - If not, the steps that were missed or completed incorrectly are flagged
 - YOU then have the opportunity to successfully complete the missing/incorrect steps
 - Important – the tool itself does *not* automatically perform any corrective actions/missed steps
- Useful to ‘anyone preparing for an upgrade’
 - Source: OS/400 V5R2M0 and above
 - Target : up to IBM i 7.1

<http://www-01.ibm.com/support/docview.wss?uid=nas15a6b33f04dcc093a8625736a00590072>

Pre-Upgrade Verification Tool (PRUV) verifies:

Prepare for Install steps

- Prerequisite PTFs applied
- Acceptance of Software Agreements
- Allocation of additional LIC space
- System values
- ANZOBJCVN PTFs applied (IBM I 6.1)
- etc.

Checks for other items that may prevent a successful upgrade

- Damaged system profiles
- Duplicate/extension files in system libraries
- etc.

Optionally performs other steps, including checking for the existence of useful items prior to the upgrade including

- Performance data
- BRMS recovery report
- etc.

“PRUV” Tool Requirements:

Client

- Windows PC

Server:

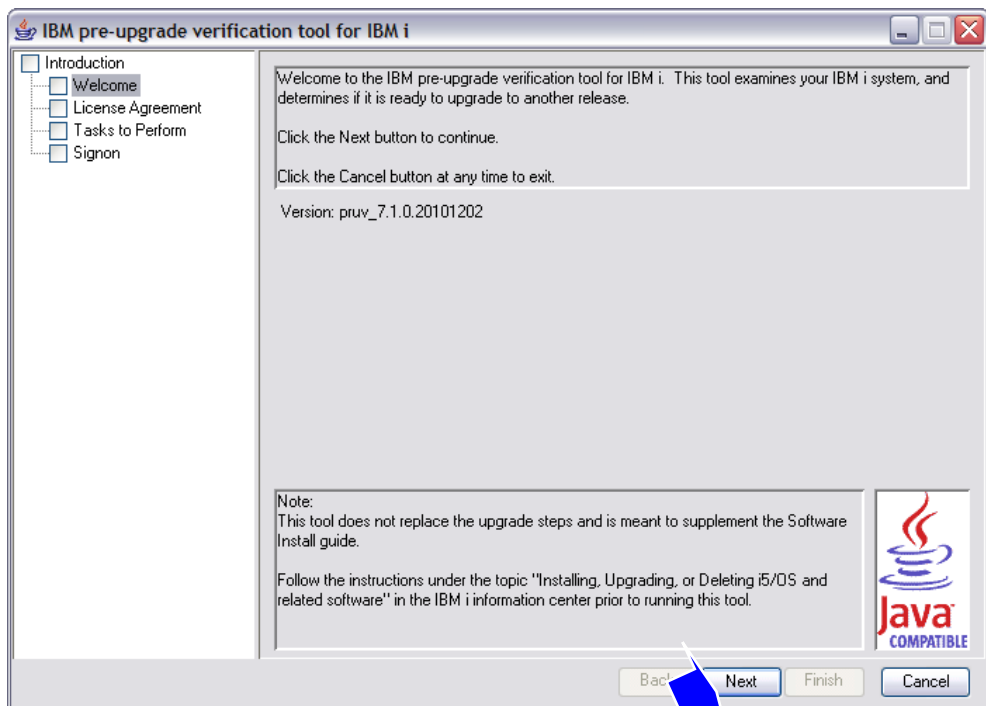
- OS/400 V5R2/V5R3 or i5/OS V5R4, IBM i 6.1
❖ and Host Servers (Option 12) installed

Download tool from IBM site:

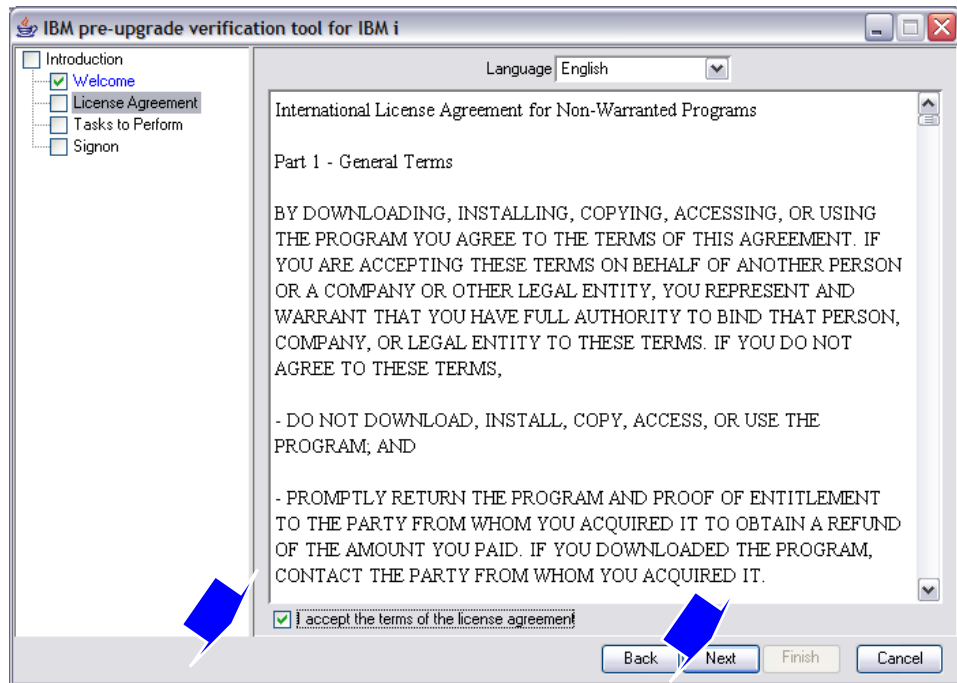
- The URL/Web site is contained in the knowledgebase document KB465353483 (or search for keyword “PRUV”)

http://www-912.ibm.com/s_dir/slkbases.nsf/1ac66549a21402188625680b0002037e/5a6b33f04dcc093a8625736a00590072?OpenDocument&Highlight=2.pruv

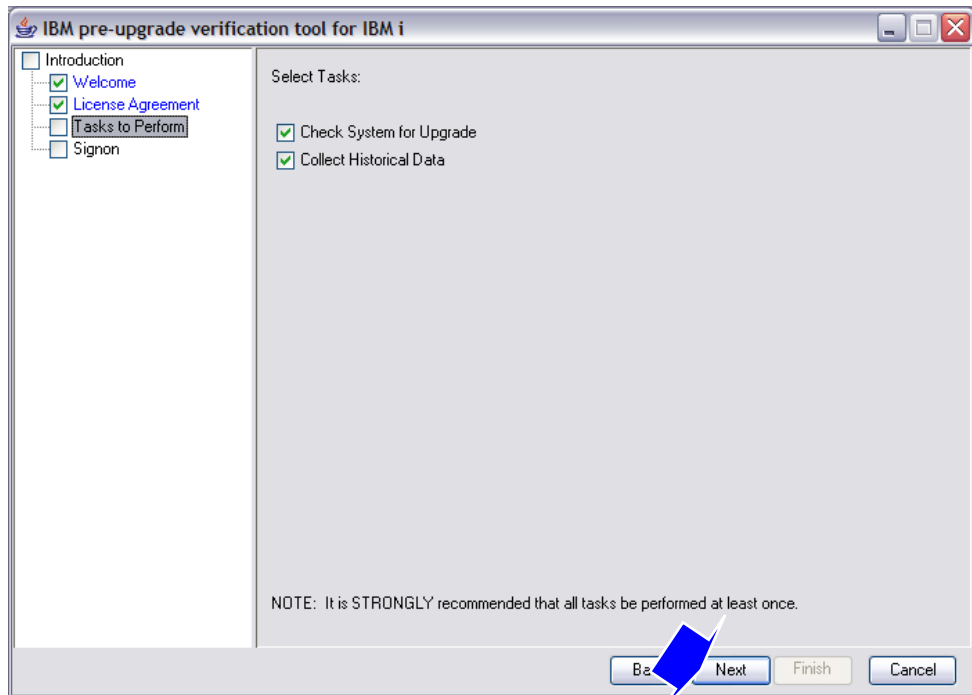
Pre-Upgrade Verification tool for IBM i:



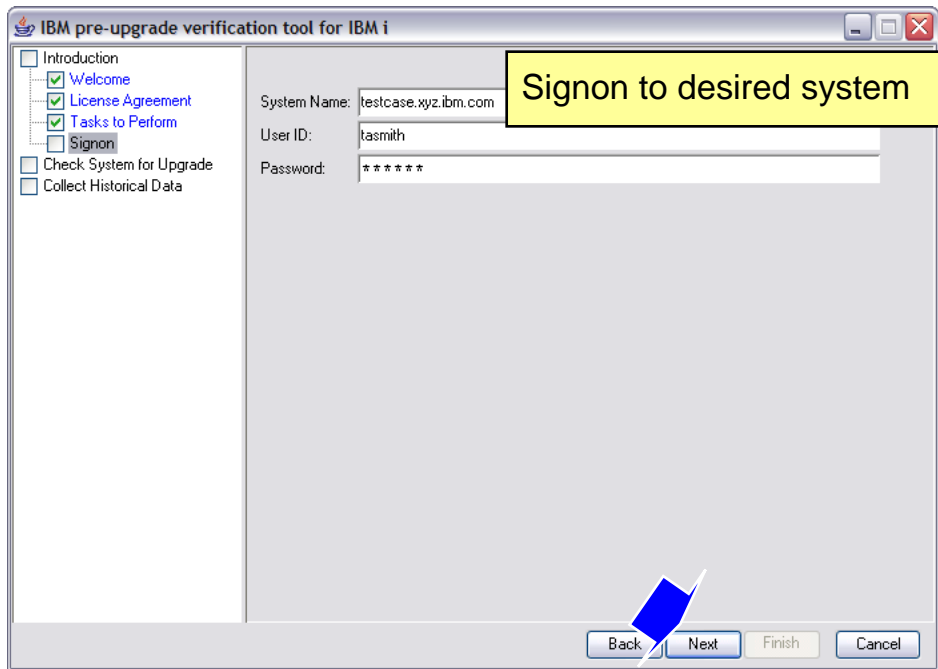
Pre-Upgrade Verification tool for IBM i:



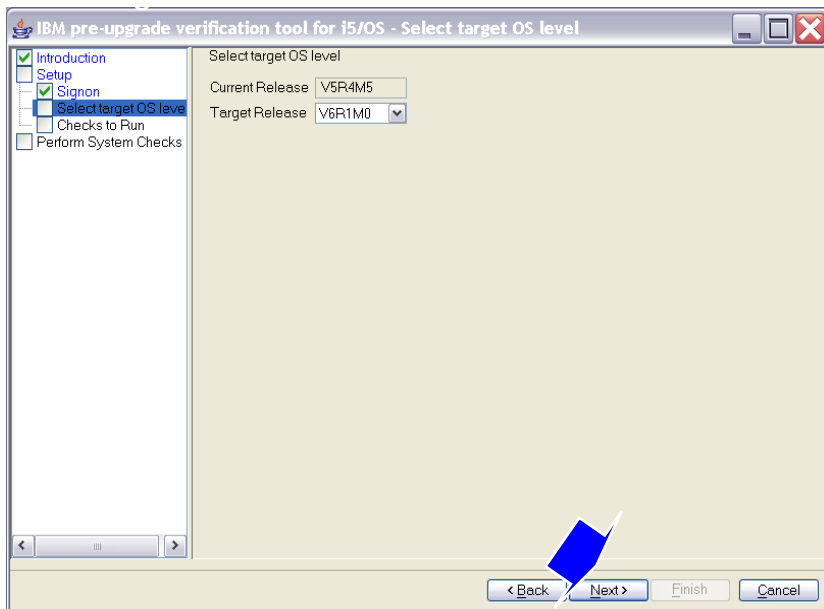
Pre-Upgrade Verification tool for IBM i:



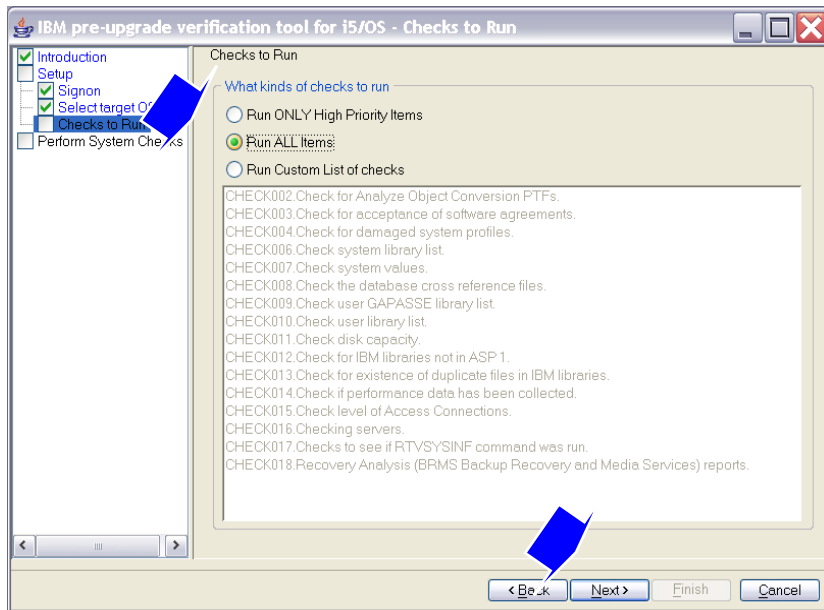
Pre-Upgrade Verification tool for IBM i :



Pre-Upgrade Verification tool for IBM i:



Pre-Upgrade Verification tool for IBM i :



Pre-Upgrade Verification tool for IBM i:

IBM pre-upgrade verification tool for i5/OS - Summary

Introduction
Setup
Perform System Checks
Summary
Output

Check ID	Description	Status
CHECK002	Check for Analyze Object Conversion PTFs.	Not yet s
CHECK003	Check for acceptance of software agreements.	Not yet s
CHECK004	Check for damaged system profiles.	Not yet s
CHECK006	Check system library list.	Not yet s
CHECK007	Check system values.	Not yet s
CHECK008	Check the database cross reference files.	Not yet s
CHECK009	Check user GAPASSE library list.	Not yet s
CHECK010	Check user library list.	Not yet s
CHECK011	Check disk capacity.	Not yet s
CHECK012	Check for IBM libraries not in ASP 1.	Not yet s
CHECK013	Check for existence of duplicate files in IBM libraries.	Not yet s
CHECK014	Check if performance data has been collected.	Not yet s
CHECK015	Check level of Access Connections.	Not yet s
CHECK016	Checking servers.	Not yet s
CHECK017	Checks to see if RTVSYSDINF command was run.	Not yet s
CHECK018	Recovery Analysis (BRMS Backup Recovery and Media Service...	Not yet s

Status: Not yet started. Click Next to run checks.

< Back Next > Finish Cancel

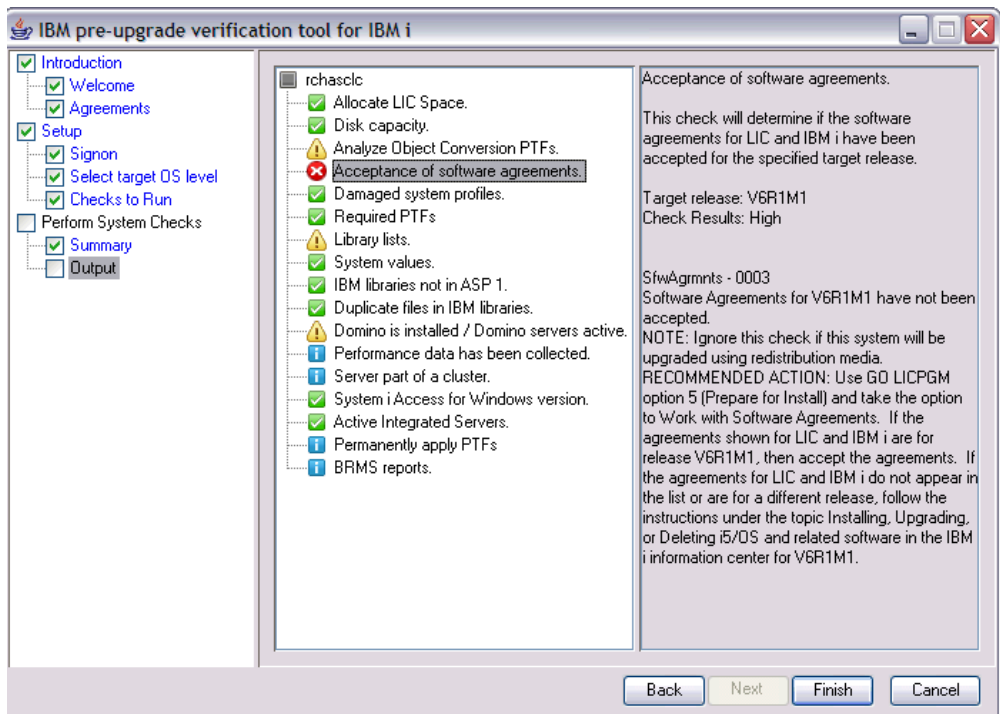
Pre-Upgrade Verification tool for IBM i:

Check	Status
Allocate LIC Space.	Completed
Disk capacity.	Completed
Analyze Object Conversion PTFs.	Attention
Acceptance of software agreements.	Failed
Damaged system profiles.	Completed
Required PTFs	Completed
Library lists.	Attention
System values.	Completed
IBM libraries not in ASP 1.	Completed
Duplicate files in IBM libraries.	Completed
Domino is installed / Domino servers active.	Attention
Performance data has been collected.	Information
Server part of a cluster.	Information
System i Access for Windows version.	Completed
Active Integrated Servers.	Completed
Permanently apply PTFs	Information
BRMS reports.	Not yet started

Status: Running.

Buttons: Back, Next, Finish, Cancel

Pre-Upgrade Verification tool for IBM i :



Pre-Upgrade Verification tool for IBM i:

IBM pre-upgrade verification tool for IBM i

- Introduction
 - Welcome
 - License Agreement
 - Tasks to Perform
 - Signon
 - Check System for Upgrade
 - Select Target OS Level
 - Select Checks to Run
 - Run Checks
 - Result of Checks
 - Collect Historical Data
 - Select Data to Collect
 - Collect Data
 - Collection Results
 - QPRUV Contents

Select	Description
<input checked="" type="checkbox"/>	BRMS Reports
<input checked="" type="checkbox"/>	System Values
<input checked="" type="checkbox"/>	SQL Plan Cache
<input checked="" type="checkbox"/>	PTF Information
<input checked="" type="checkbox"/>	Hardware Information

Details:

.....

Produces the Recovery Analysis (BRMS Backup Recovery and Media Services) reports with the steps required to restore a portion of the system or the entire system. It is recommended to print the Recovery Analysis reports prior to restoring the system or portion of the system to assure that required media is available and that all necessary saves have been performed. This task produces the reports and places the results into physical files in the QPRUV library.

Recommendations:

.....

BRMS Reports should be gathered a single time prior to upgrade.

Back Next Finish Cancel

Major IBM i 6.1, IBM i 7.1 Upgrade Planning Tasks

Outline* of Major IBM i Planning or Pre-Upgrade Tasks

- A.) Use key planning documents: Info Center (e.g. Install Guide), Memo to Users and IBM ITSO Redpaper: IBM i5/OS Program Conversion: Getting Ready for IBM i V6R1
- B.) Install PTFs and use ANZOBJCVN tools to analyze your system
- C.) Verify server firmware requirements and read applicable PSP (Preventive Service Planning) documents such as
IBM i 6.1
- SF98020 V6R1 Software Install Information
 - SF98610, MF98610
 - SF98169 Server upgrade & migrations corrections
- IBM i 7.1 SF98030 – Late breaking information, SF98710-Hiper PTF's, MF98710 – i 7.1 Hardware & HMC, SF98170 Systems Upgrades and Data Migrations.
- D.) Read applicable Info APARs -- e.g. II14310 (Required PTFs for i6.1)
- E.) Order latest CUMe package SF98610 (don't forget about ordering Group PTFs)

* Note: This is **not** an all-inclusive task list – be sure to refer to the Info Center or in the pdf for IBM i 6.1

<http://publib.boulder.ibm.com/infocenter/iseriess/v6r1m0/topic/rzaq9/rzaq9.pdf> or IBM i 7.1 <http://publib.boulder.ibm.com/infocenter/iseriess/v7r1m0/topic/rzahc/sc415120.pdf>

Major IBM i Planning or Pre-Upgrade Tasks - Overview

- F.) “Prepare for Install PTFs” are required for your V5R3 system before using the Prepare for Install menu option
- The “Prepare for Install PTFs” media included with your V6R1 software
- G.) Review Software Stack (for each LPAR)
- Third Party Vendors
 - License Program Products
 - Middleware
- H.) Consider using virtual image catalog for upgrade (PTFs are required for V5R3) Network Installation for i7.1 (PTF’s are required for IBM 6.1)
ftp://public.dhe.ibm.com/systems/support/power/i/nfs_optical_upgrade.pdf
- I.) Review/leverage Upgrade planning Template:
<http://www-947.ibm.com/systems/support/planning/upgradeproj/index.html>

Major IBM i Planning or Pre-Upgrade Tasks - Overview

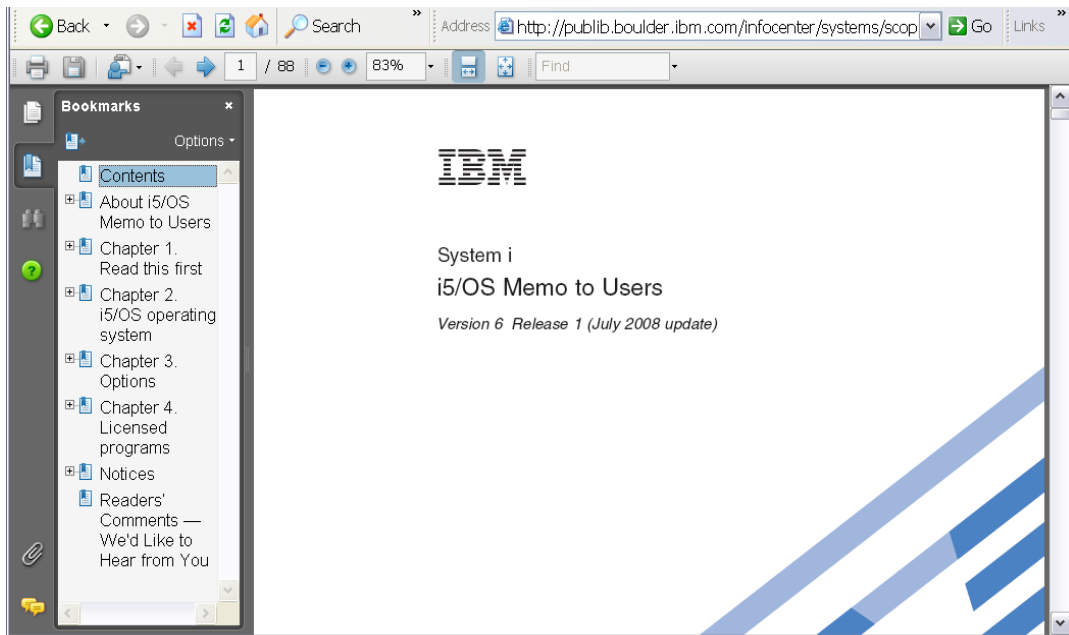
- J.) Accept Software Agreements before upgrading(GO LICPGM and then Option 5: Prepare for Install)
- K.) Verify contents of the software media that was shipped
- L.) Load Source Storage Requirements, IBM i and LPP Storage Requirements
 - If upgrading from V5R3MO:
 - ❖ Ensure load source disk is at least 17GB
 - ❖ Allocate additional space for LIC -- suggested to use API discussed at

**TIP: To make upgrade planning easier ---
take advantage of the *IBM Pre-Upgrade Verification Tool!***

A) Use the Key Planning Documents

<http://publib.boulder.ibm.com/infocenter/iseries/v6r1m0/topic/rzaq9/rzaq9.pdf>

IBM i Memo to Users IBM i 6.1



The screenshot shows a web browser window displaying the IBM i5/OS Memo to Users document. The browser's address bar shows the URL <http://publib.boulder.ibm.com/infocenter/systems/scop>. The page content includes the IBM logo, the title "System i i5/OS Memo to Users", and the version information "Version 6 Release 1 (July 2008 update)". A sidebar on the left contains a "Bookmarks" panel with a list of navigation links:

- Contents
- About i5/OS Memo to Users
- Chapter 1. Read this first
- Chapter 2. i5/OS operating system
- Chapter 3. Options
- Chapter 4. Licensed programs
- Notices
- Readers' Comments — We'd Like to Hear from You

A) Use the Key Planning Documents

Memo to Users IBM i 7.1

<http://publib.boulder.ibm.com/infocenter/iseres/v7r1m0/topic/rzaq9/rzaq9.pdf>



IBM i
IBM i Memo to Users
7.1

IBM i Information Center

<http://publib.boulder.ibm.com/infocenter/systems/scope/i5os/index.jsp>

IBM Systems Information Center - Microsoft Internet Explorer

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i5/OS information

IBM i5/OS information

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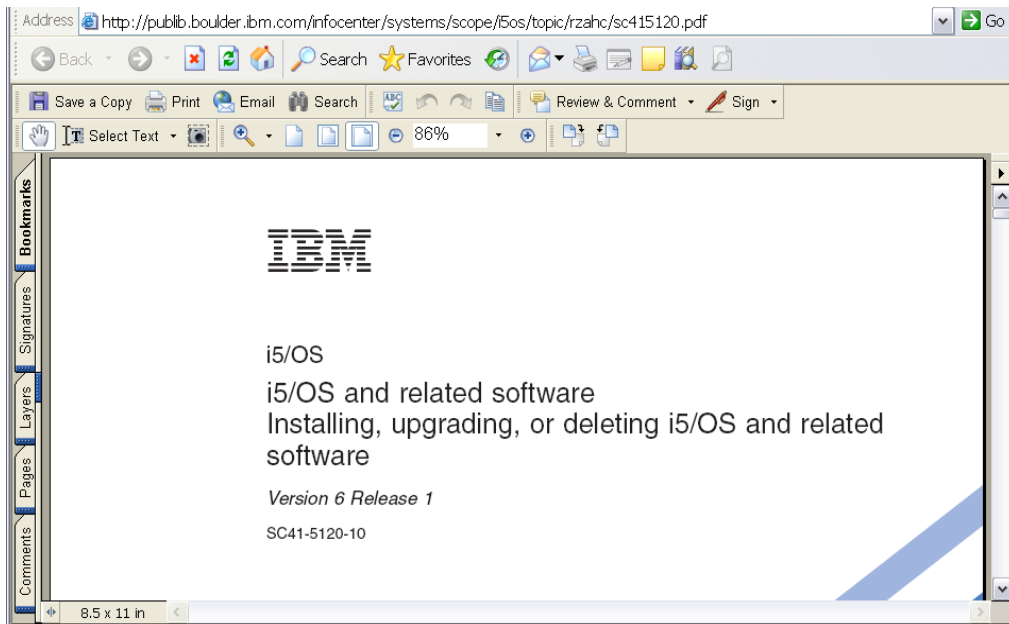
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A) Use the Key Planning Documents

<http://publib.boulder.ibm.com/infocenter/series/v6r1m0/topic/rzahc/sc415120.pdf>

V6R1 Installation/Upgrade guide:



Prefer a hardcopy? ... PDFs are available

<http://publib.boulder.ibm.com/infocenter/iSeries/v7r1m0/topic/rzahc/rzahc1.htm>

The screenshot shows a web browser displaying the IBM iSeries information center. The address bar shows the URL: http://publib.boulder.ibm.com/infocenter/systems/scope/i5os/index.jsp?topic=/rzahc/rzahc1.htm&tocNode=int_217885. The page title is "i5/OS information" and the main heading is "PDF file for Installing, upgrading, or deleting IBM i and related software". A blue arrow points to this heading. The left sidebar shows a table of contents with 11 chapters, including "What's new for IBM i 7.1" and "Chapter 11. Installing IBM i and related software".

Contents

- What's new for IBM i 7.1
- Chapter 1. Installing, upgrading, or deleting IBM i and related software
- Chapter 2. Fast path for software
- Chapter 3. Concepts for software
- Chapter 4. Checklist: IBM i software
- Chapter 5. Preparing to upgrade or replace software
- Chapter 6. Upgrading or replacing software
- Chapter 7. Upgrading or replacing software
- Chapter 8. Checklist: Completing software
- Chapter 9. Replacing Licensed Internal Code
- Chapter 10. Checklist: IBM i software
- Chapter 11. Installing IBM i and related software

PDF file for Installing, upgrading, or deleting IBM i and related software

IBM

IBM i
 IBM i and related software
 Installing, upgrading, or deleting IBM i and related software

7.1
 SC41-5120-11

A) Use the Key Planning Documents (ITSO Redpaper)

<http://www.redbooks.ibm.com/abstracts/redp4293.html?Open>

IBM i5/OS Program Conversion: Getting Ready for IBM i V6R1 and/or 7.1

The screenshot shows a web browser window displaying the IBM Redbooks abstract page. The browser's address bar shows the URL: <http://www.redbooks.ibm.com/abstracts/redp4293.html?Open>. The page features a navigation menu on the left with categories like Drafts, Redbooks, Redpapers, and Technotes. The main content area includes a 'Download PDF (1.3 MB)' button, a 'Discuss this redpaper (0)' link, and the abstract text. The abstract text describes the conversion of i5/OS V6R1 programs to IBM i V6R1 and 7.1, highlighting the Machine Interface (MI) architecture and the need for creation data. A right-hand sidebar provides metadata such as the publish date (30 April 2008), last update (08 June 2008), a 4-star rating based on 9 reviews, and a list of authors including Mike Charlton, Theresa Gardiner, Paul Godtland, Debbie Landon, Mayumi Matsukawa, and Ian J. Mills. The page also indicates the IBM Form Number (REDP-4293-00) and the number of pages (88).

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Redpaper™ Abstract

IBM i5/OS Program Conversion: Getting Ready for i5/OS V6R1

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Abstract

IBM® delivered i5/OS® V6R1 (IBM i 6.1) in March 2008. With V6R1, IBM exploits the capabilities of the Machine Interface (MI) architecture to significantly improve programs. Programs can benefit from better performance, a range of new operating system and processor capabilities, and even stronger system integrity. To enable these improvements, all MI programs created for previous releases must be converted to run on V6R1. MI programs include integrated language environment (ILE) and original program model (OPM) programs.

To convert a program, its creation data, which is a subset of observability, must be available. MI programs retain creation data by default, so that most programs can be converted, going all the way back to programs that were originally created for System/38™. Even if an option was chosen to remove creation data from external access, Licensed Internal Code (LIC) can still access the creation data if the target releases of the program and its constituent modules are V5R1 or later. Thus a program lacks sufficient creation data for conversion only if the program or at least one of its modules was created for IBM OS/400® V4R5 or an earlier release and creation data was explicitly removed.

You can run the Analyze Object Conversion (ANZOBJCVN) command on V5R4 or V5R3 to help plan for your i5/OS upgrade. The ANZOBJCVN command identifies programs that will not convert to run on V6R1, if any, and estimates the times that are required for the program conversions. It also provides information about two other types of conversions: integrated file system names and spooled files. You can access the ANZOBJCVN command by loading and applying the appropriate PTFs that are listed in this paper.

Profile

Publish Date
30 April 2008

Last Update
08 June 2008

Rating: ★★★★★
(based on 9 reviews)

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[Ian J. Mills](#)

IBM Form Number
REDP-4293-00

Number of pages
88

B) Analyze existing system(s) -- ANZOBJCVN tool

FYI - Chapter 1 in ITSO redpaper summarizes overall process (e.g. download PTFs to obtain ANZOBJCVN tool)

<http://www.redbooks.ibm.com/abstracts/redp4293.html?Open>

The screenshot shows a web browser displaying a PDF document. The address bar shows the URL: <http://www.redbooks.ibm.com/redpapers/pdfs/redp4293.pdf>. The document content is as follows:

The following steps briefly summarize the process for you to plan and implement program conversion.

Step 1: Apply V5R4 or V5R3 PTFs to enable the ANZOBJCVN command
In most cases, if you order the MRI PTF for your preferred national language, the requisite code PTFs are also automatically shipped. Refer to 3.1.2, "Required PTFs" on page 11.

Step 2: Collect information about objects on your system
Run the ANZOBJCVN OPTION("COLLECT") command. Each collection of a given type replaces the data in the collection file or files for that type. Therefore, carefully consider the information provided in 3.2, "Collecting information" on page 14, and particularly in 3.2.3, "Files used for data collections" on page 20.

Step 3: Review and understand collected information
Run the ANZOBJCVN OPTION("REPORT") command, and optionally run your own queries over the collected data. Consider the following reports:

- ▶ Report on programs that do not convert with the "CVNPRB" parameter
- ▶ Report summary information, such as estimated conversion times for each library, with the "LIBSUM" parameter

See 3.3, "Creating reports" on page 21, and particularly 3.3.3, "Understanding the conversion reports" on page 26.

Step 4: Contact your application provider, if necessary
If you find that you have purchased an application that will not convert and you do not have the source code to recompile it, contact the application provider to get a version of the application that can run on V6R1. See 3.4, "Programs that will not convert" on page 29.

Step 5: Remove unsupported products, and then upgrade to V6R1
Remove unsupported licensed program products (LPP) and other unsupported products

B) Analyze existing system(s) -- ANZOBJCVN

Be sure to refer to the latest information (e.g. PTFs) in the Info APAR II14306

http://www-1.ibm.com/n_dir/nas4apar.nsf/c79815e083182fec862564c00079d117/3af47a966c4df94586257306003c6868?OpenDocument&Highlight=2,ii14306

Technical databases · APARs · Preventive Service Planning - PSP · PTF Cover Letters · Software Knowledge Base · Registered Software Knowledge Base	APAR#:	II14306
	Component:	INFOAS400 - AS/400 Information
	Release(s):	R530, R540

Abstract
ANALYZE OBJECT CONVERSION (ANZOBJCVN) FOR V5R3M0 AND V5R4M0

Error Description
Analyze Object Conversion

The Analyze Object Conversion (ANZOBJCVN) command is available through a set of fixes (PTFs) to assist you in preparing for an i5/OS upgrade to a target release.

After you run the ANZOBJCVN command, you receive information to help you determine the impact that object conversions will have on your system. The ANZOBJCVN command analyzes the following types of object conversions:

- 1) Conversion of program objects in libraries.
- 2) Conversion of Java programs attached to stream files.
- 3) Conversion of spooled files.
- 4) Conversion of integrated file system names in file systems that are not case-sensitive.

The ANZOBJCVN command is distributed as PTFs for V5R3M0 or V5R4M0. For this function you must order an MRI PTF. By ordering the appropriate MRI PTF for your language, the prerequisite will be ordered also. For example, for English (2024) on V5R3, order the MRF_PTF_S020405 and the requisite PTFs will automatically be ordered.

The MRF PTFs for V5R3 are: SI30809, SI25504 and SI27473.
The MRF PTFs for V5R4 are: SI3080Z, SI2550Z and SI26706.

The command help provided with the command PTFs provides details for each of the parameters. This Informational APAR is for that information which is not addressed by the command help.

Conversion times reported with this tool are estimates. Actual conversion time may vary from the estimate. Various factors may affect conversion time.

C) Read Applicable PSP Documents such as:

http://www-912.ibm.com/s_dir/sline003.nsf/ALLPSPBYREL?OpenView&Start=1&Count=30&Expand=1#1

SF98020: Contains important V6R1 software install information

SF98029 High Impact Pervasive PTFs

And others ...

Type of PSP	Last Update
<ul style="list-style-type: none"> MF98610: Hardware LIC Information MH98610: Server Firmware: Update Policy Set to HMC MH98611: Server Firmware: Update Policy Set to Operating Sys SF96021: Listing of PTFs on the Cumulative PTF Package SF96022: Listing of PTFs on Cumulative PTF Package SF96023: Listing of PTFs on the Current Cumulative PTF Packa SF97074: V5R3M0 TO V6R1M0 PTF/FIX CROSS-REFERENCE SUMMARY SF97075: V6R1M0 TO V6R1M0 PTF/FIX CROSS-REFERENCE SUMMARY SF97610: FIX SUMMARY LISTING FOR VERSION 6 RELEASE 1.0 SF98020: Software Installation Information SF98021: C8064610 Cumulative PTF Package Instructions SF98022: C8127010 Cumulative PTF Package Instructions SF98023: C8190610 Current Cumulative PTF Package Instruction SF98024: Cumulative PTF Package SF98025: Cumulative PTF Package SF98026: IS/OS News To Users SF98027: Summary of HIPER and Defective PTFs SF98028: Defective PTFs SF98029: High Impact/Pervasive PTFs (HIPER) SF98109: IS/OS Power Systems upgrades SF98610: Current Cumulative PTF Package SF99115: 610 IBM HTTP Server for i SF99187: 610 Backup Recovery Solutions SF99352: 610 WebSphere App Server V6.0 SF99353: 610 WebSphere App Server V6.1 SF99354: 610 TCP/IP Group PTF SF99356: 610 Print Group PTF for V6R1M0 SF99357: 610 IBM i integration with BladeCenter and System x 	<ul style="list-style-type: none"> 11 Aug 2008 29 Jan 2008 29 Jan 2008 21 Jul 2008 20 Jul 2008 21 Jul 2008 25 Aug 2008 25 Aug 2008 18 Aug 2008 21 Jul 2008 12 Mar 2008 21 Jul 2008 21 Jul 2008 21 Aug 2008 21 Aug 2008 15 Jul 2008 21 Aug 2008 21 Jul 2008 21 Aug 2008 06 Mar 2008 21 Aug 2008 20 Jun 2008 23 Jun 2008 28 Apr 2008 18 Jun 2008 15 Aug 2008 01 Aug 2008 01 Jul 2008

C) Read Applicable PSP Documents including:

http://www-912.ibm.com/s_dir/sline003.nsf/ALLPSPBYREL?OpenView&Start=1&Count=30&Expand=1#1

IBM i 6.1 SF98610 Current Cumulative package information (not shipped with software upgrade media)
 SF98169 Server upgrade/data migrations corrections
 IBM i 7.1 SF98030 – Late breaking information, SF98710-Hiper PTF's, MF98710 – i 7.1 Hardware & HMC,
 SF98170 Systems Upgrades and Data Migrations.

And others . . .

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MF98710: Hardware LIC Information	23 Apr 2010
MH98710: Server Firmware: Update Policy Set to HMC	23 Apr 2010
MH98711: Server Firmware: Update Policy Set to Operating Sys	23 Apr 2010
SF96033: Listing of PTFs on the Current Cumulative PTF Packa	23 Apr 2010
SF97040: V6R1M0-V6R1M1 TO V7R1M0 PTF/FIX CROSS-REFERENCE SUM	29 Apr 2010
SF97043: V6R1M0 TO V7R1M0 PTF/FIX CROSS-REFERENCE SUMMARY	29 Apr 2010
SF97050: V5R4M0-V5R4M5 TO V7R1M0 PTF/FIX CROSS-REFERENCE SUM	29 Apr 2010
SF97055: V5R4M0 TO V7R1M0 PTF/FIX CROSS-REFERENCE SUMMARY	30 Apr 2010
SF97710: FIX SUMMARY LISTING FOR VERSION 7 RELEASE 1.0	26 Apr 2010
SF98030: Software Installation Information	23 Apr 2010
SF98033: C0096710 Current Cumulative PTF Package Instruction	23 Apr 2010
SF98036: IBM i Memo To Users	23 Apr 2010
SF98037: Summary of HIPER and Defective PTFs	29 Apr 2010
SF98038: Defective PTFs	23 Apr 2010
SF98039: High Impact/Pervasive PTFs (HIPER)	29 Apr 2010
SF98170: IBM i Upgrade and Migration Corrections	23 Apr 2010
SF98710: Current Cumulative PTF Package	29 Apr 2010
SF99362: 710 710 Backup Recovery Solutions	26 Apr 2010
SF99368: 710 IBM HTTP Server for i	28 Apr 2010
SF99369: 710 IBM i integration with BladeCenter and System x	23 Apr 2010
SF99572: 710 Java	21 Apr 2010
SF99617: 710 DB2 Web Query for IBM i V1.1.1	26 Apr 2010
SF99701: 710 DB2 for IBM i	19 Apr 2010
SF99708: 710 Group Security	27 Apr 2010
SF99709: 710 Group Hiper	27 Apr 2010
SF99710: Current Cumulative PTF Media Documentation	23 Apr 2010

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D) Read Applicable Informational APARs

http://www-912.ibm.com/n_dir/nas4apar.nsf/nas4aparhome

II4310 Required PTFs for upgrading to IBM i 6.1 (and others as applicable)

II14482 Required PTFs for upgrading to IBM i 7.1

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- PTF Cover Letters
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- Registered Software Knowledge Base

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Authorized Problem Analysis Reports (APARs)

V6R1 Info APARs

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APAR	Status	Abstract
INFOAS400 - AS/400 Information		
II13796	CLOSED	CAN INFORMATIONAL APAR TO RECORD ANY POST GENERAL AVAILABILITY
II14239	CLOSED	CAN SYSTEM I ACCESS SUPPORT FOR WINDOWS VISTA
II14247	CLOSED	CAN SYSTEM I ACCESS SUPPORT FOR WINDOWS VISTA - TECHNICAL DETAIL
II11373	CLOSED	CAN SYSTEM I ACCESS AND MICROSOFT WINDOWS TERMINAL SERVICES SUPP
II14318	CLOSED	CAN INFO APAR FOR DB2 WEB QUERY ON SYSTEM I V1R1M0
II14338	CLOSED	CAN SYSTEM I ACCESS SUPPORT FOR WINDOWS VISTA - TECHNICAL DETAIL
II14355	CLOSED	CAN PTF PREREQUISITES AND SPECIFIC SUPPORT DATES FOR THE SMART
II14362	CLOSED	CAN SAP SUPPORT REQUIRED PTF LIST FOR V6R1M0
II14310	CLOSED	CAN REQUIRED PTFs FOR UPGRADING TO V6R1MX
II14370	CLOSED	CAN PTFs REQUIRED TO RESTORE PROGRAM OBJECTS
II14375	CLOSED	CAN INFO APAR FOR DB2 WEB QUERY ON SYSTEM I V1R1M1
II14283	CLOSED	CAN AVAILABLE PTFs FOR CONTENT MANAGER ONDEMAND FOR I5/OS V6R1
II14280	CLOSED	CAN SYSTEM I ACCESS SUPPORT FOR WINDOWS VISTA - TECHNICAL DETAIL
II14381	CLOSED	CAN SETUP /V IGNORES MSI PARAMETERS
II14382	CLOSED	CAN V6R1M0 UPGRADE CONSIDERATIONS
II14391	CLOSED	CAN SYSTEM I ACCESS SUPPORT FOR WINDOWS 2008 SERVER
II14377	CLOSED	CAN 5782 UME CONSIDERATIONS
II14393	CLOSED	CAN OSP *WSCST Objects for new printers, Version 6
II14331	CLOSED	CAN ORACLE WORLD AND ENTERPRISEONE SUPPORT REQUIRED PTF LIST FOR
II14414	CLOSED	CAN SETUP.EXE /A FAILS WHEN SYSTEM I ACCESS FOR WINDOWS IS INSTA
II14417	CLOSED	CAN CA400EXP-INSTALL-UNPRED UNABLE TO FIND AJS PLUGIN AT V5R4
II14421	CLOSED	CAN V6R1 - INFOR'S ERP LX AND BPCS ON I5 REQUIRED PTF LIST

D) Informational APAR II14310 – Req'd PTFs for Upgrading

http://www-912.ibm.com/n_dir/nas4apar.nsf/5c9334a60fce2c52862573db0067acef/6cf800ceaf8376c3862573e70041ec63?OpenDocument

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Related links

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APAR#:	II14310
Component:	INFOAS400 - AS/400 Information
Release(s):	R610

Abstract
REQUIRED PTFs FOR UPGRADING TO V6R1MX

Error Description
The following PTFs for V5R3Mx and V5R4Mx are required to upgrade to version 6 release 1 modification x, where x is the modification number of licensed internal code only. The modification number for i5/OS will always be 0, which may not match the modification level of licensed internal code. Please review the Preventative Service Planning (PSP) entries for software installation to determine other PTFs you may need.

For determining the impact of conversions that will occur when upgrading to Version 6 Release 1 please review and read Redpaper "i5/OS Program Conversion: Getting Ready for i5/OS," REDP-4293, from www.redbooks.ibm.com and Info APAR II14306. These documents list the APARs needed to evaluate your system prior to the upgrade.

For upgrading to Version 6 Release 1 using virtual media, the following PTFs must be applied:

If you are upgrading from V5R3M0 - SI28698
- MF42598
- MF43199

If you are upgrading from V5R3M5 - SI28698
- MF42599
- MF43355

If you are upgrading from V5R4M0 - SI28697
- MF42600
- MF43154

If you are upgrading from V5R4M5 - SI28697
- MF42601
- MF43157

D) Informational APAR II14310 – Required PTFs for Upgrading

http://www-912.ibm.com/n_dir/nas4apar.nsf/5c9334a60fce2c52862573db0067acef/6cf800ceaf8376c3862573e70041ec63?OpenDocument

 To prevent deletion of i5/OS power on/off schedule entries when upgrading to V6R1, apply the following PTFs:
 If you are upgrading from V5R3 - SI22147

The following PTFs are shipped with the software order on the CD-ROM titled Prepare for Install PTFs:

Version 5 Release 3.0 PTFs

1. ~~Prepare for install PTF~~ - SI19058
2. 17 GB load source requirement and allocate space for Licensed Internal code
 SI14190 (see cover letter for co-requisite MRI PTFs)
 MF33150
 MF38060
 MF36280
 MF42598 (If V5R3M0)
 MF42599 (If V5R3M5)
3. If upgrading from R530/R535 and the system is an i5 that is OS Managed for Firmware, prior to upgrading, MH00396(R530) or MH00387(R535) must be either Permanently Applied or Superseded. If Superseded, the Superseding PTF must be Permanently Applied. For information on how to determine what level of Firmware is currently on the system and how to upgrade it properly, please refer to the following URL:

http://www-912.ibm.com/s_dir/s1kbase.NSF/1444e529a72ba96486256a6400681992/c69799b70a28578c8625712c004fe06b?OpenDocument&HighLight=0,master&TableRow=2.0#2

 Ensure additional LIC space has been allocated prior to upgrading to new release using 'D' mode or VMI as follows:

- 1.) Use QLPALCSP API to let LIC know additional space needs to be allocated during the next IPL.
- 2.) If message CPI3DBF - "Allocating additional space is not necessary" appears in the joblog, then the required space has already been allocated.
- 3.) If message CPI3DBF does not appear in the joblog, then

E) Order latest CUM package

http://www-912.ibm.com/s_dir/sline003.nsf/GroupPTFs?OpenView&Start=1&Count=30&Expand=1#1

Request SF99610 to order CUM

- SF98610 PSP – lists current CUM level and details

Order other appropriate Group PTFs

- Click Group PTFs link at http://www-912.ibm.com/s_dir/sline003.nsf/sline003home

Preventive Service Planning - PSP

Group PTFs by Release

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[Search](#)

Title	Group Level	Last Update
▼ 710		
SF99709: 710 Group Hiper	Level 2	27 Apr 2010
SF99708: 710 Group Security	Level 1	27 Apr 2010
SF99701: 710 DB2 for IBM i	Level 1	19 Apr 2010
SF99617: 710 DB2 Web Query for IBM i V1.1.1	Level 1	26 Apr 2010
SF99572: 710 Java	Level 2	21 Apr 2010
SF99369: 710 IBM i integration with BladeCenter and System x	Level 1	23 Apr 2010
SF99368: 710 IBM HTTP Server for i	Level 1	28 Apr 2010
SF99362: 710 710 Backup Recovery Solutions	Level 1	26 Apr 2010

▶ 610

▶ 540

▶ 530

power is performance redefined

F) 'Prepare for Install' PTFs

http://www-912.ibm.com/n_dir/nas4apar.nsf/5c9334a60fce2c52862573db0067acef/6cf800ceaf8376c3862573e70041ec63?OpenDocument

Install the "Prepare for Install" PTFs for V5R3 before using the Prepare for Install menu option

- Included on the "Prepare for Install PTFs..." media shipped with V6R1 (See Informational APAR II14310 below)

```
-----
The following PTFs are shipped with the software order on
the CD-ROM titled Prepare for Install PTFs:
```

Version 5 Release 3.0 PTFs

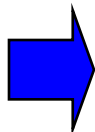
1. Prepare for install PTF - SI19058
2. 17 GB load source requirement and allocate space for Licensed Internal code
SI14190 (see cover letter for co-requisite MRI PTFs)
MF33150
MF38060
MF36280
MF42598 (If V5R3M0)
MF42599 (If V5R3M5)
3. If upgrading from R530/R535 and the system is an i5 that is OS Managed for Firmware, prior to upgrading, MH00386(R530) or MH00387(R535) must be either Permanently Applied or Superseded. If Superseded, the Superseding PTF must be Permanently Applied. For information on how to determine what level of Firmware is currently on the system and how to upgrade it properly, please refer to the following URL:

```
http://www-912.ibm.com/s\_dir/slkbase.NSF/1444e529a72ba96486256a6400681992/c69799b70a28578c8625712c004fe06b?OpenDocument&Highlight=0,master&TableRow=2.0#2
```

```
-----
Ensure additional LIC space has been allocated prior to
upgrading to new release using 'D' mode or VMI as follows:
```

- 1.) Use QLPALCSP API to let LIC know additional space needs to be allocated during the next IPL.
- 2.) If message CPI3DBF - "Allocating additional space is not necessary" appears in the joblog, then the required space has already been allocated.

G) Review Software Stack.... Work with Licensed Programs



```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
LICPGM Work with Licensed Programs System: DALI5
Select one of the following:
Manual Install
  1. Install all
Preparation
  5. Prepare for install
Licensed Programs
  10. Display installed licensed programs
  11. Install licensed programs
  12. Delete licensed programs
  13. Save licensed programs
More...
Selection or command
===>
F3=Exit F4=Prompt F9=Retrieve F12=Cancel F13=Information Assistant
F16=System Main menu
MA b 20/007
I902 - Session successfully started
```

G) Review Software Stack Work with Licensed Programs

```
Session B - [24 x 80]
File Edit View Communication Actions Window Help
Prepare for Install
System: DALI5
Type option, press Enter.
  1=Select
Opt  Description
-    Work with licensed programs for target release
-    Work with licensed programs to delete
-    List licensed programs not found on media
-    Display licensed programs for target release
-    Work with software agreements
-    Work with user profiles
-    Verify system objects
-    Estimate storage requirements for system ASP
-    Allocate additional space for LIC
-    Keep disk configuration
Bottom
F3=Exit  F9=Command line  F10=Display job log  F12=Cancel
MA b                                           07/003
I902 - Session successfully started
```

H) Virtual Media Installation

Automate IBM i and Licensed Programs installs through virtual media

- Isolate media errors and minimize user intervention
- Improves system availability

First enabled with OS/400 V5R2

- Extended to support V5R1 through PTFs
 - ❖ SI10553, SI06069 and MF29250

Required PTFs – [Info APAR II14310](#)

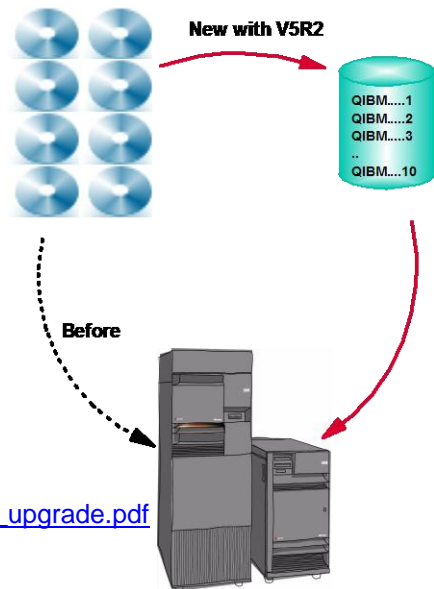
- Upgrading from V5R3M0 - SI28698, MF42598, MF43199
- Upgrading from V5R3M5 - SI28698, MF42599, MF43355
- Upgrading from V5R4M0 - SI28697, MF42600, MF43154
- Upgrading from V5R4M5 - SI28697, MF42601, MF43157

Easy configuration steps

- Create a virtual image catalog device
- Build image catalog to transfer IBM software from distribution media to a user defined IFS directory
- Restart system to load from virtual device
- Point licensed program installation or PWRDWN SYS command to IFS path

Use Network install if Upgrading from IBM i 6.1 to IBM i 7.1

- ftp://public.dhe.ibm.com/systems/support/power/i/nfs_optical_upgrade.pdf



H) Virtual Media Installation (via Image Catalog)

<http://publib.boulder.ibm.com/infocenter/iseriess/v7r1m0/index.jsp?topic=/rzahc/prepareimagecatalog.htm>

The screenshot shows the IBM Infocenter interface. At the top, there is a search bar with the text 'Search' and a 'Country/region [select]' dropdown. Below the search bar is a navigation menu with links for 'Home', 'Business solutions', 'IT services', 'Products', 'Support & downloads', and 'My IBM'. The search results show 'Search: virtual media install' with a 'GO' button and 'Search scope: All topics'. The main content area is titled 'i5/OS information' and features the article 'Preparing to upgrade or replace software using an image catalog'. The article text states: 'You can use an image catalog to perform an i5/OS® software upgrade, to install PTFs (fixes), or to install single licensed programs that you receive on media.' It continues: '»When you use an image catalog, you preload all your media so that you do not need to handle the physical media when you perform the installation. You do this by copying the images from the physical optical media or from files received through electronic software delivery to a file in the integrated file system and then use these preloaded images to install. The topic [Virtual storage](#) describes further the concepts and uses of virtual tape and virtual optical media. [Image catalog for a virtual device](#) describes the requirements for using image catalogs.«' Below the text is a section titled 'Determining storage requirements for image catalog installation' which states: 'i5/OS image catalog installation requires additional storage space to contain the installation images. The amount of system disk-unit storage that you need varies based on what you are installing.'

I) Review/Use Upgrade (HW & SW) Planning Template (as appropriate)

<https://www-304.ibm.com/systems/support/planning/upgradepro/index.html>

IBM Systems support

- BladeCenter
- Power
- System i
- System p
- System x
- System z
- System Storage
- System Blue Gene
- IntelliStation Pro
- IBM Monitors
- Systems Management software
- Hardware upgrades

Upgrade planning template

To help ensure the success of your system upgrade project, an end-to-end planning template is now available for download. The template contains the following chronological list of the major stages and tasks that should be considered in your upgrade project.

- Planning
- Ordering
- Preparing
- Pre-installation
- Installation
- Post-installation

Each upgrade task has a designated resource to identify the primary owner, in a typical upgrade scenario. If a task has more than one resource listed, either party (or both parties) may perform the task, depending on the situation.

You may need to customize the template by adding or removing tasks, to suit your specific project.

For more details on the tasks that are included in the upgrade planning template, including how to complete a task, see the [iSeries upgrade checklist](#) or [pSeries upgrade checklist](#).

Download the template

The upgrade planning template is available in two different formats for your convenience. To download the checklist, select one of the following links.

- 📄 Upgrade planning template (125 KB)
 - ➔ Get Adobe® Reader®
- ⚡ Upgrade planning template (54 KB)
 - ➔ Get the Microsoft® Excel Viewer

System i resources

- ➔ System i Support
- ➔ Migration and upgrade information

Legend

- ➔ Denotes a main link
- 📄 Denotes a non-IBM link
- ⚡ Download a product
- 📄 Denotes PDF link
- ➔ Get Adobe® Reader®

Related links

- Warranties, licenses and maintenance
- developerWorks
- alphaWorks
- IBM Business Partners

J) Accept Software Agreements Before Upgrading

<http://publib.boulder.ibm.com/infocenter/iseres/v7r1m0/topic/rzahc/rzahcrequiredtasks.htm>

The screenshot shows the IBM i 7.1 Information Center website. The navigation bar includes Home, Solutions, Services, Products, Support & downloads, and My IBM. A search bar is present with a 'GO' button and a 'Search scope: All topics' dropdown. The left sidebar contains a 'Contents' tree with the following items:

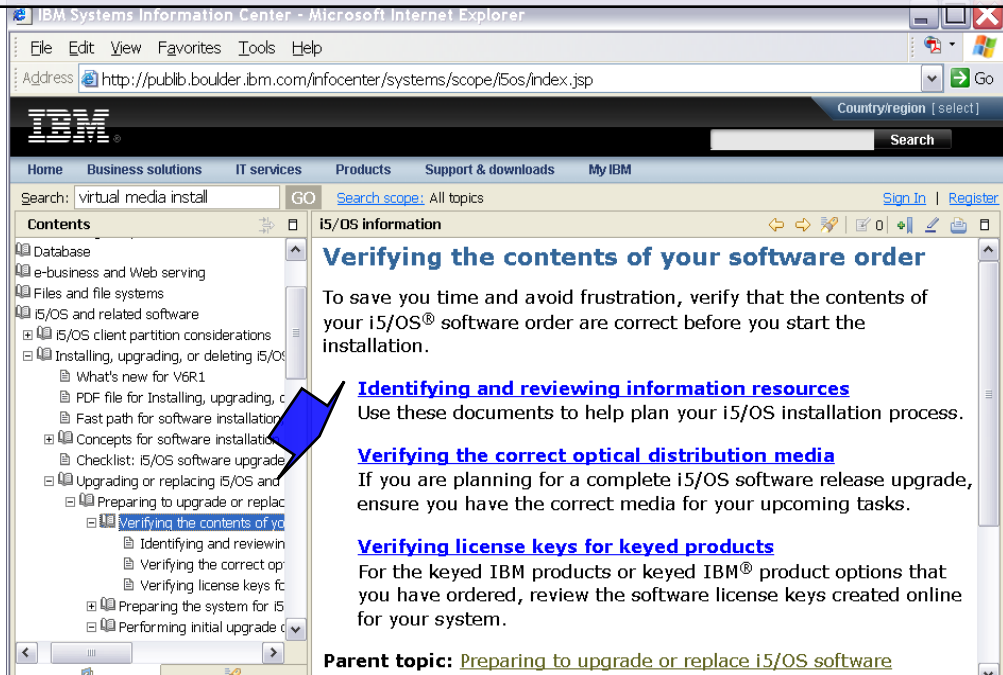
- Preparing the system for IBM i software upgrade or replacement
 - Verifying firmware requirements for the new release
- Reviewing software PTF (fix) requirements
 - Finding the latest PSP information
 - Analyzing fixes you currently have on your system
 - Installing PTFs and analyzing your system for object conversions (V5R4 to IBM i 7.1 up
 - Permanently applying program temporary fixes (PTFs)
 - Adding fix support for currently installed licensed programs
- Working with critical system values before you install software
 - Recording and printing all system values before you install software
 - Changing certain system values (QSYSIBL, QUSRLIBL, QALWOB, JRST, or QVIFYOB)
 - Optionally changing the scan control system value
 - Setting the Year offset value
- Verifying the integrity of user-modified system objects
 - Ensuring two-phase commit integrity
 - Minimizing software installation time
- Gathering performance data for benchmark
- Performing initial upgrade or replacement tasks
 - Saving the system
 - Optional: Running the IBM Pre-Upgrade Verification tool
 - Upgrading or replacing software using automatic installation**

The main content area displays the breadcrumb path: [IBM i 7.1 Information Center](#) > [IBM i and related software](#) > [Installing, upgrading, or deleting IBM i and related software](#) > [Upgrading or replacing IBM i and related software](#). Below this is a 'Send feedback' link and the section title 'Performing initial upgrade or replacement tasks'. The text states: 'Complete these initial installation tasks, which include saving the system. Several of these initial tasks are required for...'. It then lists several tasks with links:

- Choosing a software installation method and device**: If you are upgrading the IBM i operating system and your licensed programs to the new release, you need to decide which kind of device you will use to install the new release.
- Preparing for globalization**: If appropriate, prepare to change the primary language on your system or install additional secondary languages.
- Preparing the upgrade device and media**: You can prepare to install IBM i software from optical media, an image catalog, tape devices or tape libraries, or other media.
- Required: Creating a custom list of software to install**: Use this Prepare for install option to create a customized installation list and preselect the IBM i licensed programs (and operating system) that you want to install. This step is required to ensure the software agreements for the licensed Software Agreements display, which occurs later in the process.
- Required: Accepting software agreements**: As a continuation of using the IBM i Prepare for install option, you must accept the software agreements for licensed software.
- Ensuring the system meets disk storage requirements for upgrades**: You must ensure that you will have adequate disk storage before you start to install or replace IBM i software.
- Choosing disk configuration**: If you are replacing the operating system and want to keep your current disk configuration, follow these steps.
- Estimating upgrade or replacement time**

K) Verify Contents of the Shipped Software Media

<http://publib.boulder.ibm.com/infocenter/iseries/v7r1m0/topic/rzahc/prepareupgradeorreplace.htm>



IBM Systems Information Center - Microsoft Internet Explorer

Address: <http://publib.boulder.ibm.com/infocenter/systems/scope/i5os/index.jsp>

Country/region [select] Search

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Search: virtual media install GO Search scope: All topics Sign In Register

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 - Verifying the contents of y**
 - Identifying and reviewin
 - Verifying the correct op
 - Verifying license keys fc
 - Preparing the system for i5
 - Performing initial upgrade d

i5/OS information

Verifying the contents of your software order

To save you time and avoid frustration, verify that the contents of your i5/OS® software order are correct before you start the installation.

[Identifying and reviewing information resources](#)
Use these documents to help plan your i5/OS installation process.

[Verifying the correct optical distribution media](#)
If you are planning for a complete i5/OS software release upgrade, ensure you have the correct media for your upcoming tasks.

[Verifying license keys for keyed products](#)
For the keyed IBM products or keyed IBM® product options that you have ordered, review the software license keys created online for your system.

Parent topic: [Preparing to upgrade or replace i5/OS software](#)

K) Verify Contents of the Shipped Software Media

IBM Systems Information Center - Mozilla Firefox: IBM Edition

http://publib.boulder.ibm.com/infocenter/systems/scope/i5os/index.jsp?topic=/rza

Country/region [select]

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- [-] About i5/OS information
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i5/OS information

Verifying the correct optical distribution media

If you are planning for a complete i5/OS[®] software release upgrade, ensure you have the correct media for your upcoming tasks.

1. »Locate the software distribution media. Verify that the optical media for Licensed Internal Code and the operating system are for V6R1.«
 - »When you receive software for a new release, you should receive optical media for at least Licensed Internal Code (I_BASE_01), the operating system (B29xx_01), and licensed programs (B29xx_02).

Note: »If you are replacing software with the same version and release, you need only two DVDs: I_BASE_01 and B29xx_01. Verify also that B29xx_01 and B29xx_02 are in the correct primary language. «

«

You could also receive optical media for secondary languages and other types of software products, such as Programming Requests for Price Quotation (PRPQs) and licensed program offerings (LPOs).

» [Media labels and their contents](#) lists the names and product identifiers of licensed programs that you ordered.«

K) Verify Contents of the Shipped Software Media

IBM Systems Information Center - Mozilla Firefox: IBM Edition

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 - Deleting software related to i5/OS
 - Troubleshooting software installation
- i5/OS software reference
 - Licensed program release information
 - Estimates for i5/OS software
 - Installation devices and requirements
 - i5/OS release interoperability
 - Installation notes about i5/OS software
 - Media labels and their contents**

i5/OS information

Media labels and their contents

This information lists the optical media that you receive with your i5/OS® order.

If you requested electronic software delivery, refer to the [Electronic software delivery](#) Web site for the list of filenames associated with the standard set and keyed set products.

»Your media for installation needs to be arranged in the order that is listed. «

»**Release identifier for V6R1: R01M00**«

»Distribution media labels indicate the release and modification level in a format that is different from what appears on displays during installation. The release and modification level are shown in the format R0xM00.«

Media type identifiers

»Labels on the distribution media that are used for installation have unique identifiers. Media type identifiers are located on the center of the label. These identifiers help you determine when to use each media volume. The identifiers on the label are as follows: I_BASE_01, B29xx_01, B29xx_02, F29xx_01, and so on. «

Note: »With your V6R1 software order, you receive the *Prepare for install PTFs for V5R1, V5R2, and V5R3*, SK3T-8163, CD-ROM. This media is for V5R3-to-V6R1 upgrades and contains PTFs that you temporarily apply to be able to accept the

K) Verify Contents of the Shipped Software Media

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 - Media labels and their contents

i5/OS information

»When you are ready to install your new software, arrange the media in this order:«

»

- »**I_BASE_01 Licensed Machine Code**

This language-independent Licensed Machine Code (Licensed Internal Code) supports all national language features. The Licensed Machine Code is part of the standard set of media.

Table 1. I BASE 01

Product	Description
»5761999«	»Licensed Machine Code«

«

2. **B29xx_01 IBM® i5/OS**

This media contains the base part of the i5/OS operating system, IBM-supplied libraries QGPL and QUSRSYS, and all i5/OS no-charge options.

»

Table 2. B29xx_01

Product	Description
---------	-------------

K) Verify Contents of the Shipped Software Media

IBM Systems Information Center - Mozilla Firefox: IBM Edition

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i5/OS information

2. **B29xx_01 IBM® i5/OS**

This media contains the base part of the i5/OS operating system, IBM-supplied libraries QGPL and QUSRSYS, and all i5/OS no-charge options.

» **Table 2. B29xx_01**

Product	Description
5761SS1	i5/OS
5761SS1	i5/OS - Library QGPL
5761SS1	i5/OS - Library QUSRSYS
5761SS1 option 1	i5/OS - Extended Base Support
5761SS1 option 2	i5/OS - Online Information
5761SS1 option 3	i5/OS - Extended Base Directory Support
5761SS1 option 5	System/36™ Environment
5761SS1 option 6	System/38™ Environment
5761SS1 option 7	Example Tools Library

IBM i Media Charges/Electronic download support expanded

Effective April 13, 2010

Applies to all IBM i marketed releases

- i 5.4, i 6.1, i 7.1

\$50 USD media charge for IBM i initial and upgrade orders

No media charge if use Electronic Software Download

Electronic Software Delivery (ESD)

- A new API called QVOIFIMG (Fill Image Catalog) has been PTFd into V5R4 and V6R1 that makes it easier to use image catalogs when working with images that have been downloaded through the ESD process.
 - ❖ Information APAR for software Installation upgrade to IBM i 7.1 (II14482) includes the specific PTF numbers for each of these releases.

L) Load Source, IBM i & Licensed Programs Storage Req'ts

File Edit View Favorites Tools Help

Address <http://publib.boulder.ibm.com/infocenter/systems/scope/i5os/index.jsp> Go

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Preparing the system for i5/OS software upgrading

Performing initial upgrade or replacement tasks

Choosing a software installation method and Preparing for globalization

Preparing the upgrade device and media

Required: Creating a custom list of software

Required: Accepting software agreements

Ensuring the system meets disk storage requirements

Determining storage space required for a software upgrade

i5/OS information

Determining storage space required for a software upgrade

Before you schedule a time to install the i5/OS® release, determine the available storage space and the storage space that is required.

Load-source disk unit requirements

- »To upgrade to the V6R1 Licensed Internal Code, you must have a load-source disk unit of 17 GB or larger for each system or logical partition even when the load-source disk unit is parity protected. «
- The procedures in this topic might not include all requirements for storage that you have on your system. If you are preparing to upgrade or replace software using an image catalog, ensure that you have reviewed the topic, [Determining storage requirements for image catalog installation](#).

To determine if you have enough storage space for the new release, perform the following steps:

1. Type GO LICPGM. The Work with Licensed Programs display

L) Load Source, IBM i & Licensed Programs Storage Req'ts

The screenshot shows a web browser window displaying the IBM i5/OS software reference page. The browser's address bar shows the URL: <http://publib.boulder.ibm.com/infocenter/systems/scope/i5os/i>. The page features the IBM logo at the top left and a search bar at the top right. Below the navigation menu, there is a search box and a "GO" button. The main content area is titled "i5/OS software reference" and contains several sections of text and links. A blue arrow points to the text "i5/OS® & software" in the first paragraph.

i5/OS software reference

This topic contains a collection of supporting information about the concepts and tasks related to upgrading or installing i5/OS® & software.

[Licensed program releases and sizes](#)

The following licensed programs are available this release and are compatible with the i5/OS operating system.

[Estimates for i5/OS software installation time](#)

It is difficult to accurately estimate the amount of time needed to install a new release of software. Many variables combine to create a unique set of circumstances for each system. Use this information to help you estimate the time it will take to install your new i5/OS release.

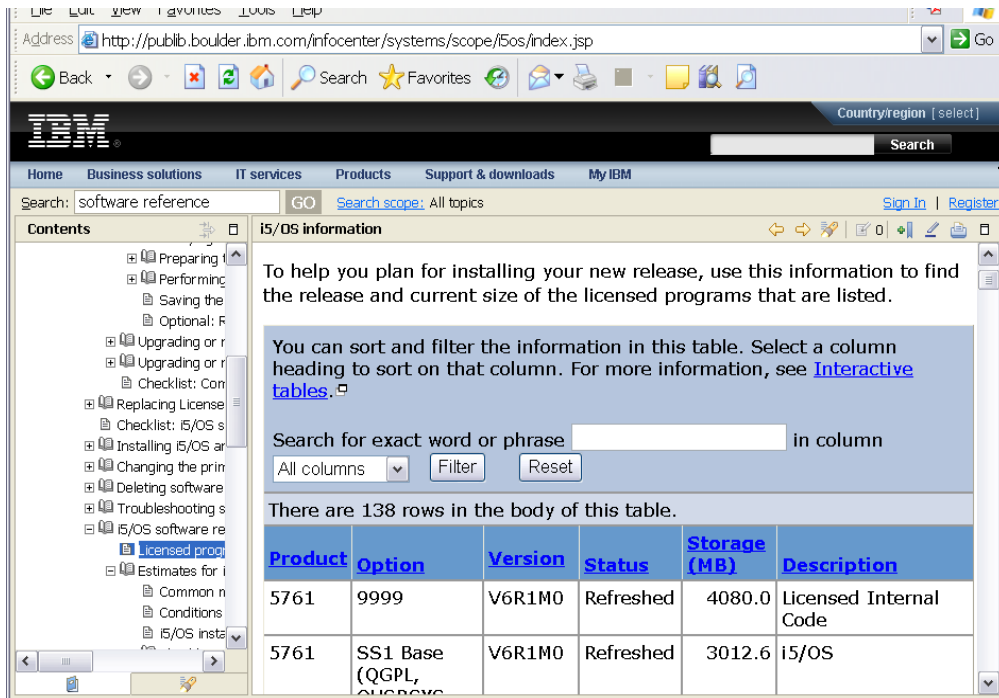
[Installation devices and media](#)

These devices can be used to install the i5/OS release.

[i5/OS release interoperability](#)

A system interoperates with another system when you exchange data or when you save and restore objects. Review the supported combinations of OS/400® and i5/OS releases.

L) Load Source, IBM i & Licensed Programs Storage Req'ts



The screenshot shows a web browser window displaying the IBM i5/OS information page. The page title is "i5/OS information". The main content area contains a table of licensed programs. The table has the following columns: Product, Option, Version, Status, Storage (MB), and Description. The first row shows Product 5761, Option 9999, Version V6R1M0, Status Refreshed, Storage 4080.0 MB, and Description Licensed Internal Code. The second row shows Product 5761, Option SS1 Base (QGPL, QUPDWC), Version V6R1M0, Status Refreshed, Storage 3012.6 MB, and Description i5/OS. A blue arrow points to the "Storage (MB)" column header.

Search: software reference GO Search scope: All topics Sign In Register

Contents

i5/OS information

To help you plan for installing your new release, use this information to find the release and current size of the licensed programs that are listed.

You can sort and filter the information in this table. Select a column heading to sort on that column. For more information, see [Interactive tables](#).

Search for exact word or phrase in column

All columns Filter Reset

There are 138 rows in the body of this table.

Product	Option	Version	Status	Storage (MB)	Description
5761	9999	V6R1M0	Refreshed	4080.0	Licensed Internal Code
5761	SS1 Base (QGPL, QUPDWC)	V6R1M0	Refreshed	3012.6	i5/OS

L) Load Source, IBM i & Licensed Programs Storage Req'ts

The screenshot shows the IBM website's 'i5/OS information' page. A table lists software options with their part numbers, descriptions, versions, refresh dates, and storage requirements. The table is as follows:

Part Number	Description	Version	Refresh Date	Storage Requirement	Product Name
5761	RD1 option 11	V6R1M0	Refreshed	49.0	OnDemand Web Enablement Kit
5761	RD1 option 12	V6R1M0	Refreshed	0.3	OnDemand PDF Indexer Feature
5733	SC1 base	V6R1M0	Refreshed	3.2	IBM Portable Utilities for i5/OS
5733	SC1 option 1	V6R1M0	Refreshed	124.8	OpenSSH, OpenSSL, zlib functions
5761	SM1 base	V6R1M0	Refreshed	8.0	IBM System Manager for i5/OS
5761	ST1 base	V6R1M0	Refreshed	20.6	IBM DB2 Query Manager and SQL Development Kit for i5/OS
5761	TC1 base	V6R1M0	Refreshed	43.9	IBM TCP/IP Connectivity Utilities for i5/OS
5761	TS1 base	V6R1M0	New	4.4	IBM Transform Services for i5/OS
5761	TS1 option 1	V6R1M0	New	21.5	Transforms - AFP to PDF Transform



“TOP 10” Keys to Success

Be sure to plan for ample time to do program conversion planning & analysis (e.g. ANZOBJCVN) – use the [ITSO redpaper](#)

Contact your applications providers/software vendors

Use the IBM [Information Center](#) and [Memo to Users!](#)

(If skipping a release, read the interim release’s Memo to Users)

Leverage the ‘as is’ [IBM Pre-Upgrade Verification](#) tool and collect ‘before and after’ performance data

Load source unit must be 17GB or greater and ensure that enough reserved space is allocated for LIC

Be sure to SAVE your entire system before the IBM i upgrade (and ‘double check’ the save job log) (FlashCopy the entire system works as well)

Must accept ‘SW license agreements’ before upgrade

Verify the contents of your software order and consider using Virtual Media installation

Use the [IBM i Planning Web site](#) and refer to Preventive Service Planning documents at http://www-912.ibm.com/s_dir/sline003.nsf/sline003home

Estimate upgrade/installation time (and understand impact of conversions):

- http://publib.boulder.ibm.com/infocenter/series/v7r1m0/index.jsp?to_pic=/rzahc/rzahcsoftref1.htm

Useful Web Sites

IBM i Info Center: (i.e. (What's New and Memo to Users)

<http://publib.boulder.ibm.com/infocenter/systems/scope/i5os/index.jsp>

Information Center – IBM i Installation/Upgrade

IBM i 5.4 <http://publib.boulder.ibm.com/infocenter/series/v5r4/topic/books/sc415120.pdf>

IBM i 6.1 <http://publib.boulder.ibm.com/infocenter/series/v6r1m0/topic/rzahc/sc415120.pdf>

IBM i 7.1 <http://publib.boulder.ibm.com/infocenter/series/v7r1m0/topic/rzahc/sc415120.pdf>

IBM i Support home page (e.g. links to Info APARS, PSPs, Fix Central, Technical Databases....):

<http://www-304.ibm.com/systems/support/supportsite.wss/brandmain?brandind=5000027>

PSP Planning Site http://www-912.ibm.com/s_dir/sline003.nsf/sline003home

IBM Electronic Software Delivery Web site:

http://www-304.ibm.com/jct01004c/systems/support/software/delivery/en_US/downloadinfo.html

IBM Entitled Software Support site (Entitled SW Updates, SW Keys, Proofs of Entitlement....)

<https://www-5.ibm.com/servers/eserver/ess/OpenServlet.wss>

IBM i Planning: <http://www-304.ibm.com/jct01004c/systems/support/i/planning/>

Useful Web Sites (Con't)

Software No Longer Supported: <http://www-304.ibm.com/systems/support/i/planning/upgrade/v6r1/index.html>

IBM Prerequisite Web site: http://www-912.ibm.com/e_dir/eserverprereq.nsf

Individual IBM i i software product Web sites <http://www-03.ibm.com/systems/i/software/a2z.html>

IBM Pre-Upgrade Verification tool: http://www-912.ibm.com/s_dir/slkbases.nsf/1ac66549a21402188625680b0002037e/5a6b33f04dcc093a8625736a00590072?OpenDocument&Highlight=2.pruv

RPG Café <http://www-949.ibm.com/software/rational/cafe/community/rpg>

Domino IBM i Upgrade <http://www-01.ibm.com/support/docview.wss?rs=899&uid=swg21294587>

ITSO Redpaper 'IBM i5/OS Program Conversion - Getting Ready for i5/OS V6R1':
<http://www.redbooks.ibm.com/abstracts/redp4293.html?Open>

Power Systems Vouchers

- <http://www-03.ibm.com/systems/power/hardware/vouchers/index.html>

Network Install ftp://public.dhe.ibm.com/systems/support/power/i/nfs_optical_upgrade.pdf

Checkpoint

1. True or False?
The Memo to Users and the What's new are two of the primary documents you need to read before an upgrade .
2. You can upgrade directly to IBM i 7.1 from which of these releases?
 - a) V5R2
 - b) V5R3
 - c) V5R4
 - d) IBM i 6.1
3. True or False?
For clustering the Cluster Software must be at most one level difference in order to upgrade
4. True or False?
You can 'pre-convert' the objects on a POWER6 System with V5R4 so you don't need to do the object conversion upon upgrade to IBM i 6.1 or IBM i 7.1

Checkpoint

1. **True** or False?

The Memo to Users and the What's new are two of the primary documents you need to read before an upgrade .

2. You can upgrade directly to IBM i 7.1 from which of these releases?

a) V5R2

b) V5R3

c) V5R4

d) IBM i 6.1

3. **True** or False?

For clustering the Cluster Software must be at most one level difference in order to upgrade

4. True or **False**?

You can 'pre-convert' the objects on a POWER6 System with V5R4 so you don't need to do the object conversion upon upgrade to IBM i 6.1 or IBM i 7.1

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Link to Acquire the 7.1 IBM i Access products

The IBM i Access for Windows client is fully supported connecting to N+/- two releases. This is stated on <http://www-03.ibm.com/systems/i/software/access/connections.html>. So the 7.1 client is supported connecting to 5.4 and later. As mentioned above, of course some features that are built into the later releases of the OS won't be available when the later client connects to earlier releases. Connecting the 7.1 client to earlier releases than 5.4 IBM i is also possible, it's just that we officially test the connections to N-2 and therefore, that's the official support statement.

As for how to acquire the latest client, here are notes about how it works today, plus some notes about changes that are coming in a couple months:

Today:

- Our strategy for 7.1 and many previous releases has been that we allow N-1 customers to order the latest IBM i Access Family products. The thinking originally was that N-2 typically goes out of marketing when N comes along, so it made the most sense to allow N-1 to get the newest client. So the specific current examples on <http://www-03.ibm.com/systems/i/software/access/caorder.html>:

- 6.1 customers can get the 7.1 IBM i Access products.
- 5.4 customers can get the 6.1 IBM i Access products.

- Requirements:

- SWMA is required in order to get the newer release, which is consistent with IBM i LPs in general.
- Today, customers are required to have purchased 57xx-XW1 (either a number of user licenses or processor-based) in order to get the newer release. If a customer has a combo of 5.4, 6.1, and 7.1 machines in their business, they'd be able to get the 7.1 client via either their 6.1 or 7.1 machine. And then once their end users have 7.1 client installed on the PC, the end user is supported connecting to the 5.4 OS and later machines.

Changes coming soon:

- We realize a lot of 5.4 customers want/need the 7.1 client for various reasons. We are adding a refresh feature to 5.4 5722-SS1 so that 5.4 customers can acquire the 7.1 IBM i Windows client.
- SWMA is required, like always - XW1 is not required. Any SS1 customer with SWMA can get it
- The current 6.1 refresh feature to get 7.1 iAccess products (which includes both IBM i Access for Windows and IBM i Access for Web) will be moved from a 5761-XW1 feature to a 5761-SS1 feature: i.e. ordering the 7.1 iAccess products will no longer require that customers have XW1, all SS1 customers can get them.

We expect the above changes to be available within a couple of months.

To summarize: For the time being, 6.1 and later IBM i Access customers can get the 7.1 client, due to many having at least a 6.1 machine in their enterprise. Once they acquire 7.1 Windows client, connections to 5.4 IBM i and later are fully supported. .

Upgrading to V7R1 with InfoSphere CDC

The comment in the Large User Group discussion that the CDC 6.1 for iSeries product

> is not supported on IBM i 7.1 is not correct.

CDC

6.1 and 6.1 FP1 have> been tested successfully on IBM i 7.1 during the QA cycle for the release of 6.1 FP1.