What you need to know to do successful IBM i upgrades to 7.1, 7.2, 7.3

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iTech Solutions because IBM i (AS/400s) don’t come with System Administrators
In this session

We are going to run through all the steps required to do an upgrade: from when you initially start thinking about the upgrade, what you need to do to prepare for the upgrade, issues & concerns to address before we start the upgrade, the actual upgrade, and then the verification and conversions afterward.

A successful upgrade is one which the users don’t know you worked all weekend, and they don’t realize anything has changed until you start rolling out the new features and functions.
What we will cover...

- Map, starting, and documentation
- Analyze Object Conversion
- Release Mapping
- HMC, FSP, firmware, & IBM i
- Models
- Required PTFs, Resaves, and License Keys
- Image Catalogue & Preparing
- Right before the upgrade
- The Upgrade
- Verification
- Conversions & Afterwards
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IBM i Roadmap

IBM i 7.3
- Announce April 12, 2016
- GA April 15, 2016

IBM i 7.2 TR4
- Announce April 12, 2016
- GA May 20, 2016

** All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.**

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Upgrade Map

Preinstallation activities
- Plan
- Prepare server
  - Required tasks:
    - Accept software agreements
    - Allocate additional space for Licensed Internal Code
- Save server

Upgrade process scenario
Automatic installation
- Install Licensed Internal Code
- Install operating system
- Install new release of currently installed licensed programs
- Install additional licensed programs
- Install secondary language
- Complete installation
  - Load and apply cumulative PTF package
  - IPL
  - Wait for initialize system (INZSYS) to complete

Postinstallation activities
- Customize
- Install information center
- Additional activities (such as installing IBM eServer iSeries Access or installing a WebSphere product on the client)
- Save server
What you need before you start

- Have your Business Partner order 7.1, 7.2, or 7.3 about 6 weeks before your planned upgrade date.
- Can also download software.
- License Keys.
- i5/OS V5R4 CDs, 6.1, 7.1, 7.2, & 7.3 primarily on DVDs.
- Manuals.
- PTFs order about 2 weeks before the upgrade.
- Save Media for backups
- Approximately 6 hours of Dedicated system time.
- Bottle of Tums (Optional)
IBM i
Version 7.3

IBM i and related software
Installing, upgrading, or deleting IBM i and related software
IBM i Memo to Users
Version 7.3

Memo to Users
Example of a change in Memo to Users

- End TCP/IP (ENDTCP)

To allow time for these commands to process, two Delay Job (DLYJOB) commands are issued. A total of 10 minutes delay is added before the End Subsystem (ENDSBS) command is issued.

**SAVLIB and SAVCHGOBJ changes for library QUSRYSYS**

Whenever library QUSRYSYS is saved with the Save Library (SAVLIB) or Save Changed Objects (SAVCHGOBJ) commands, the current system information is retrieved and saved. The system information saved is the same data which is retrieved by the Retrieve System Information (RTVSYSINF) command. If a system needs to be reloaded from distribution media, the system information can be updated by restoring the user information and then running UPDSYSINF LIB(QUSRYSYS). Since the RTVSYSINF command is issued during a SAVLIB or SAVCHGOBJ command, status messages sent by RTVSYSINF are displayed and there will be additional completion messages associated with the RTVSYSINF command appearing in the joblog. Additionally, there might be a slight increase in the time required for the SAVLIB or SAVCHGOBJ commands as a result of retrieving and saving the system information.

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**C and C++ changes**

**C language runtime changes**

**STRCHR() function changes**
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• MOST IMPORTANT STEP Crossing the 6.1 boundary
  - 2 Months before: Run ANZOBJCVN to see what issues you might have.
• For V6R1, unique conversions will occur with programs in libraries, Java™ programs in directories, spooled files, and integrated file system names in files systems that are not case-sensitive. Before you upgrade to a new release, it is strongly recommended that you gather information about specific object types on your system.
• Going from V5R4 to 7.1 (Skipping 6.1) requires you to perform this as well.
### Verify 3rd Party Software

<table>
<thead>
<tr>
<th>Vendor</th>
<th>Product</th>
<th>Release</th>
<th>Libraries</th>
<th>Helpline</th>
<th>Serial#</th>
<th>Dependent</th>
</tr>
</thead>
</table>

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Planning

- Make sure you read both those manuals and understand the changes in the new release.
- PTF for Latest issues
- V5R4 – SF98540
- V6R1 – SF98610
- V7R1 - SF98710
- V7R2 - SF98720
- V7R3 – SF98730
Valid Upgrade paths IBM i 6.1

V5R3

V5R4

6.1 or 6.1.1
Valid Upgrade paths IBM i 7.1

V5R4  ->  7.1

6.1  ->  7.1
Valid Upgrade paths IBM i 7.2
Valid Upgrade paths IBM i 7.3
## Release Support

<table>
<thead>
<tr>
<th>Release</th>
<th>Announce date*</th>
<th>GA date*</th>
<th>Announce End of Marketing date*</th>
<th>Effective End of Marketing date*</th>
<th>End of Program Support*</th>
<th>Program Support Extension Available*</th>
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<tbody>
<tr>
<td>V4R4</td>
<td>02/09/1999</td>
<td>05/21/1999</td>
<td>02/13/2001</td>
<td>05/31/2001</td>
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<td>11/30/2001</td>
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<td>08/30/2002</td>
<td>02/08/2005</td>
<td>10/01/2005</td>
<td>04/30/2007</td>
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<tr>
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<td>04/30/2013</td>
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<td>V5R4</td>
<td>01/31/2006</td>
<td>02/14/2006</td>
<td>01/27/2009</td>
<td>05/27/2011</td>
<td>09/30/2013 Note 2</td>
<td>09/30/2016 Note 3</td>
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<tr>
<td>6.1.x</td>
<td>01/29/2008</td>
<td>03/21/2008</td>
<td>09/09/2014</td>
<td>12/09/2014</td>
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<td>09/30/2018 Note 3</td>
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<tr>
<td>7.1</td>
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<td>04/23/2010</td>
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<td>Note 1</td>
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<td>05/02/2014</td>
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<td>7.3</td>
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<td>04/15/2016</td>
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<td></td>
</tr>
<tr>
<td>Release</td>
<td>End of support</td>
<td>Upgrade to V5R4</td>
<td>Upgrade to IBM i 6.1</td>
<td>Upgrade to IBM i 7.1</td>
<td>Upgrade to IBM i 7.2</td>
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<tr>
<td>---------</td>
<td>----------------</td>
<td>----------------</td>
<td>---------------------</td>
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</tr>
<tr>
<td>V5R3</td>
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<td>-</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

1 Upgrades from previous software releases not shown in this table are no longer available. For more information, go to Release life cycle.
Skipping a release

- Going from 7.1 to 7.3 must read 7.2 memo to users
- What if you are at 6.1?
- What if you are at V5R4
- What if you are at earlier than V5R4 (get more tums)

- Note: V5R3M5 of LIC uses V5R3M0 of i5/OS
  V5R4M5 of LIC uses V5R4M0 of i5/OS
  6.1.1 of LIC uses 6.1 of IBM i
## i5/OS, OS/400 support for Domino

<table>
<thead>
<tr>
<th></th>
<th>IBM i 7.3 (2)</th>
<th>IBM i 7.2</th>
<th>IBM i 7.1 (1)</th>
<th>IBM i 6.1 (1) and i 6.1.1 (3)</th>
<th>IBM i 6.1 (1) and i 6.1.1 (3)</th>
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</thead>
<tbody>
<tr>
<td>Domino 9.0.1</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td></td>
</tr>
<tr>
<td>Domino 9.0</td>
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<td>Not supported</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
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<td>Not supported</td>
<td>Not supported</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Domino 8.5</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>IBM i 7.2</th>
<th>IBM i 7.1 (1)</th>
<th>IBM i 6.1 (1) and i 6.1.1 (3)</th>
<th>IBM i 5.4 (3) and i 5.4.5</th>
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<tbody>
<tr>
<td>Domino 9.0.1</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Not supported</td>
</tr>
<tr>
<td>Domino 9.0</td>
<td>Not supported</td>
<td>X</td>
<td></td>
<td>Not supported</td>
</tr>
<tr>
<td>Domino 8.5.1, 8.5.2, 8.5.3</td>
<td>Not supported</td>
<td>X</td>
<td></td>
<td>X (2)</td>
</tr>
<tr>
<td>Domino 8.5</td>
<td>Not supported</td>
<td>Not supported</td>
<td></td>
<td>X (2)</td>
</tr>
<tr>
<td>Domino 8.0.1, 8.0.2</td>
<td>Not supported</td>
<td>Not supported</td>
<td></td>
<td>X (2)</td>
</tr>
<tr>
<td>Domino 8.0</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td></td>
</tr>
</tbody>
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HMC, FSP, i5/OS
i5/OS, FSP, & HMC

- IBM i
- Linux
- IBM i

Power Hypervisor PHYP

Flexible Service Processor (FSP)
- Flash Memory
- Perm
- Temp

System Power Cont. Network (SPCN)
Order of Upgrades

- Upgrade the HMC
- Upgrade the FSP firmware
- Upgrade i5/OS & LIC
Firmware Requirements (1 of 3)

- **V5R3M0 & V5R3M5 of i5/OS requires a minimum Firmware of:**
  - Power 5 – No Minimum.
  - Power6 & Power7 Not supported.
- **V5R4M0**
  - Power5 – SF235_160
  - Power6 & Power7 Not Supported.
- **V5R4M5**
  - Power5 – SF235_160
  - Power6 – EM310_048, EL320_040, EH330_034
  - Power7 – Not Supported.
Firmware Requirements (2 of 3)

- **6.1.0 of IBM i requires a minimum Firmware of:**
  - Power5 - SF240_332
  - Power6 - EM320_040, EL320_040, EH330_034
  - Power7 - Not supported

- **6.1.1**
  - Power5 – SF240_332
  - Power6 – EM320_040, EL320_040, EH330_034
  - Power7 – AL710_043

- **7.1.0**
  - Power5 – SF240_332
  - Power6 - EM320_040, EL320_040, EH330_034
  - Power7 – AL710_043
  - Power8 – SV810_054
Firmware Requirements (3 of 3)

- **7.2.0**
  - Power5 – Not Supported
  - Power6 – EM320_040, EL320_040, EH330_034, EA320_040
  - Power7 – AL710_043, AM710_065, AA710_083, AH720_064
  - Power8 – SV810_054

- **7.3.0**
  - Power5 – Not Supported
  - Power6 – Not Supported
  - Power7 – AL710_043, AM710_065, AA710_083, AH720_064
  - Power8 – SV810_054
<table>
<thead>
<tr>
<th>Server MTM 8286-41A</th>
<th>System firmware</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HMC and HMC Virtual Appliance</strong></td>
<td><strong>SV840_056 FW840.00 SV830_048 FW830.00 SV830_068 FW830.10 SV830_075 FW830.11 SV830_086 FW830.20 (2)</strong></td>
</tr>
<tr>
<td>V8 R840 V8 R840 SP1</td>
<td>Supported</td>
</tr>
<tr>
<td>V8 R830 V8 R830 SP1 V8 R830 SP2</td>
<td>Unsupported</td>
</tr>
<tr>
<td>V8 R820 V8 R820 SP1 V8 R820 SP2</td>
<td>Unsupported</td>
</tr>
<tr>
<td>V8 R810 V8 R810 SP1 V8 R810 SP2 V8 R810 SP3 (1)</td>
<td>Unsupported</td>
</tr>
</tbody>
</table>
## HMC & FSP Code Combinations Power 7

<table>
<thead>
<tr>
<th>Server MTM 8202-E4D</th>
<th>System firmware</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HMC and HMC Virtual Appliance</strong></td>
<td>AL770_076, AL770_090, AL770_092, AL770_098, AL770_101, AL770_109, AL770_110</td>
</tr>
<tr>
<td>V8 R840, V8 R840 SP1</td>
<td>Supported, Supported</td>
</tr>
<tr>
<td>V8 R830, V8 R830 SP1, V8 R830 SP2</td>
<td>Supported, Supported</td>
</tr>
<tr>
<td>V8 R820, V8 R820 SP1, V8 R820 SP2</td>
<td>Supported, Supported</td>
</tr>
<tr>
<td>V8 R810, V8 R810 SP1, V8 R810 SP2, V8 R810 SP3 (1)</td>
<td>Supported, Supported</td>
</tr>
<tr>
<td>V7 R790, V7 R790 SP1, V7 R790 SP2, V7 R790 SP3 (2)</td>
<td>Supported, Unsupported</td>
</tr>
<tr>
<td>V7 R780, V7 R780 SP1, V7 R780 SP2 (3)</td>
<td>Supported, Supported</td>
</tr>
<tr>
<td>V7 R770, V7 R770 SP1, V7 R770 SP2, V7 R770 SP3, V7 R770 SP4 (4)</td>
<td>Supported, Supported</td>
</tr>
</tbody>
</table>
DSPFMWSTS: V5R4M5 and above

![Image of display firmware status](image)

<table>
<thead>
<tr>
<th>Service partition</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firmware update policy</td>
<td>*OPSYS</td>
</tr>
<tr>
<td>Server IPL source</td>
<td>Temporary</td>
</tr>
<tr>
<td>Firmware product ID/release</td>
<td>5733905  V1R1M0</td>
</tr>
<tr>
<td>Server IPL required</td>
<td>No</td>
</tr>
</tbody>
</table>

```
<table>
<thead>
<tr>
<th>Copy</th>
<th>Fix</th>
<th>PTF</th>
<th>-Operating system-- Fix</th>
<th>PTF</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>*ACTIVE</td>
<td>SF240_362</td>
<td>MH01144</td>
<td>SF240_362</td>
<td>MH01144</td>
<td>None</td>
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<tr>
<td>*TEMP</td>
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<td>*PERM</td>
<td>SF240_338</td>
<td>MH01079</td>
<td>SF240_338</td>
<td>MH01079</td>
<td>None</td>
</tr>
</tbody>
</table>
```

Press Enter to continue

F3=Exit  F5=Refresh  F12=Cancel  F14=Display firmware PTFs
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<table>
<thead>
<tr>
<th>Systems</th>
<th>IBM i 7.1</th>
<th>IBM i 7.2</th>
<th>IBM i 7.3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER8</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>S814, S822 (VIOS only), S824, E870, E880</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>POWER7/7+ Servers</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Power 710, 720, 730, 740, 750, 760, 770, 780, 795</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>POWER7/7+ Blades and Compute Nodes</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>PS700/701/702/730/704, PureFlex p260/460</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>POWER6/6+</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>520, 550, 560, 570, 595, JS12/22, JS23/43</td>
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</tr>
<tr>
<td>515, 520, 525, 550, 570, 595</td>
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<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Note 1 – no IOP or HSL support
Models Not supported at Release B6000423

- V5R4: 150, 170, 250, 400, 40S, 436, 53S, 500, 510, 530, 50S, 600, 620, 640, 650, 720, 730, 740, S10, S20, S30, S40, SB1
- V6R1: 270, 820, 830, 840, SB2, SB3 or earlier members of the iSeries family.
- V7R1: 800, 810, 825, 870, and 890.
- V7R2: POWER5 – 9405-520, 9406-520, 525, 550, 570, 595, and 9407-515. PLUS POWER6 with POWER5 Draws
- V7R3: All POWER6, Power7 Blades
IBM 7.2 will **NOT** support

- RIO/HSL Loops or draws on POWER6 (0595, 5095, 0694, 0697, 5790, 5094, 5088, 0588, 5791)
- Does not support IOPs or IOP based adapters on POWER6.
- No Twinax
- Websphere Application Server V7.0, Upgrade to V8.0 (fix pack 8 which is 8.0.0.8) or V8.5 (fix pack 2 which is 8.5.5.2) or later.
- Java 1.4.2 (option 13) and 5.0 (option 8 & 9). The default is now Java 7.1 32bit (option 14).
IBM 7.3 issues that need to be addressed

1) POWER6
2) LAN Console
3) Increase License Internal Code Space
4) Required PTFs
5) IBM iNetServer Shared Printer Changes
6) Secure sockets Layer (SSL) and Transport Layer Security (TLS) Changes
7) Supported Versions Of:
   7.1) Java
   7.2) Domino
   7.3) WebSphere
## Load Source > 17GB for 5.4, 6.1, & 7.1

### Work with Disk Status

<table>
<thead>
<tr>
<th>Unit</th>
<th>Type</th>
<th>Size (M)</th>
<th>Used (%)</th>
<th>I/O Rqs</th>
<th>Request Size (K)</th>
<th>Read Rqs</th>
<th>Write Rqs</th>
<th>Read (K)</th>
<th>Write (K)</th>
<th>Busy</th>
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<tr>
<td>1</td>
<td>4326</td>
<td>26373</td>
<td>33.3</td>
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<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
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<tr>
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<td>26373</td>
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</tr>
<tr>
<td>3</td>
<td>4326</td>
<td>26373</td>
<td>28.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>4326</td>
<td>26373</td>
<td>28.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>.0</td>
<td>0</td>
</tr>
</tbody>
</table>

### Command

```plaintext
F3=Exit    F5=Refresh    F12=Cancel    F24=More keys
```
Load Source > 70GB for 7.2 (7.2 TR1 & 7.3 will support virtuals 35GB)

Minimum of 35 GB for 520-byte sectors (DS8000, virtual disks with VIOS as server)
Minimum of 41 GB (to get 35 GB useable space) for 512-byte sectors (SVC, Storwize, virtual disks with VIOS VSCSI or IBM i as server)
Minimum of 70 GB for Native-attached SAS/SCSI (Both 520-byte or 4K sectors)
If Using Operations Console

- Upgrade Operations console before the IBM i upgrade using the CD/DVD IBM i Access Setup and Operations.
- Correct Card location in CEC
- Use Userid of 11111111 & password of 11111111 for connection of Ops Console during the upgrade
- Direct attach NOT Supported in 7.1. Convert to LAN Console before upgrade.
- Twinax not supported at 7.2.
- For 7.3 IBM i Access Console -> Access Client Solutions BEFORE upgrading.
IBM 7.3 will **NOT** support

- Websphere Application Server V8.0, Upgrade to V8.5 (fix pack 9 which is 8.5.5.9) or later.
- WebSphere MQ version 7.0.1 and lower is not supported. Upgrade to 7.1.0.7 or 8.0.0.4.
- Java 6.0 (option 11 & 12) are no longer supported. The default JVM is now Java 8.0 32bit (option 16). Just JVM 7 & 8.
What we will cover…

- Map, starting, and documentation
- Analyze Object Conversion
- Release Mapping
- HMC, FSP, firmware, & IBM i
- Models

- Required PTFs, Resaves, and License Keys
- Image Catalogue & Preparing
- Right before the upgrade
- The Upgrade
- Verification
- Conversions & Afterwards
Planning

• Verify what you have received is all the software you require.
• Already covered Server levels FSP Code
• You will require loading some PTFs, Check to see if IPL is required.
List of Required PTFs before upgrading

• Here is the PTF list for going to:
  - V5R3 APAR II14149  V5R4 – APAR II14131
  - 6.1 APAR II14310  V7R1 – APAR II14482
  - 7.2 -
    https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IBM%20i%20and%20Related%20Software/page/Required%20PTFs%20for%20upgrading%20to%20IBM%20i%207.2
  - 7.3
    https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/IBM%20i%20and%20Related%20Software/page/Required%20PTFs%20for%20upgrading%20to%20IBM%20i%207.3
4. 17 Aug 2006 Information APAR II14188 contains information about New Firmware and Software Requirements for processor upgrades (N83).

3. 29 Jun 2006 If upgrading from Version 5 Release 2.0 to Version 5 Release 4.0, DO NOT use the option in the prepare for install menu to allocate License Internal Code space. Use the API that is documented in the Information Center for Version 5 Release 4.0 at http://publib.boulder.ibm.com/infocenter/iseries/v5r4/topic/rzshr/allocatespacial.htm#allocatespacial

Topic titled: Required: Allocating additional space for Licensed Internal Code. If using Virtual Media Install, verify the latest PTFs are installed.

See information APAR II14131 for the latest PTFs required.
## CDs – ReSpin or ReSave

### I_BASE_01 – Version

<table>
<thead>
<tr>
<th>Resave Identifier</th>
<th>LIC Marker PTF (999)</th>
<th>OS Marker PTF (SS1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSA (LIC 7.3.0) / RS 730-00</td>
<td>RE16050</td>
<td>AP16026</td>
</tr>
<tr>
<td>RSH (LIC 7.2.0) / RS 720-00</td>
<td>RE16089</td>
<td>AP14056 (Has TR-4)</td>
</tr>
<tr>
<td>RSS (LIC 7.1.0) / RS 710-10</td>
<td>RE16082</td>
<td>AP11067 (Has TR-11)</td>
</tr>
<tr>
<td>RSM (LIC 6.1.1) / RS 610-10(XPF)</td>
<td>RE63274</td>
<td>AP09202</td>
</tr>
<tr>
<td>RSG (LIC 6.1.0) / RS 610-10(XPF)</td>
<td>RE09202</td>
<td>AP09202</td>
</tr>
<tr>
<td>RSG (LIC 5.4.0) / RS 540-30(XPF)</td>
<td>RE08281</td>
<td>AP07100</td>
</tr>
<tr>
<td>RSF (LIC 5.4.5) / RS 540-30(XPF)</td>
<td>RE59055</td>
<td>AP07100</td>
</tr>
<tr>
<td>RSF (LIC 5.3.5) / RS 530-10(XPF)</td>
<td>RE57131</td>
<td>AP05202</td>
</tr>
</tbody>
</table>


DVD installation media for i 7.1, 7.2, & 7.3 - The DVD installation media is consolidated. Previously there were 51 sets of unique language version media. Now there are three sets of multiple language version media.
License Keys

- No longer come printed with your order
- Locate the Customer packing list from your software order to obtain:
  - Customer number
  - Software Order
IBM's Entitled software support - Sign in - Microsoft Internet Explorer

Please enter your IBM ID and password in the sign in area below. If you are not currently registered with our site please register now.

IBM ID: pmasiello@itechsol.com
Password: ********

Forgot your IBM ID?
Forgot your password?
Change password

Submit Cancel
Select License Keys you want

### iSeries software license keys

#### Step 2: License key(s) selection

Select at least one license Key/Product, and click on one of the options below.

<table>
<thead>
<tr>
<th>Product number</th>
<th>Product name</th>
<th>Version / release</th>
</tr>
</thead>
<tbody>
<tr>
<td>5722SS1</td>
<td>i5/OS - Per Processor</td>
<td>V5</td>
</tr>
</tbody>
</table>

### Customer no. 892

<table>
<thead>
<tr>
<th>Product number</th>
<th>Product name</th>
<th>Version / release</th>
</tr>
</thead>
<tbody>
<tr>
<td>5722QU1</td>
<td>Query</td>
<td>V5R4M0</td>
</tr>
<tr>
<td>5722SS1</td>
<td>i5/OS</td>
<td>V5R4M0</td>
</tr>
<tr>
<td>5722WDS</td>
<td>WebSphere Development Studio</td>
<td>V5R4M0</td>
</tr>
<tr>
<td>5722XW1</td>
<td>iSeries Access Family Per User</td>
<td>V5R4M0</td>
</tr>
</tbody>
</table>

- Select all

### Document options

- Print this page
These are your Keys

- **Product name**: iSeries Access Family Per User
  Key output: ADELICKEY PRID (5722XW1)
  LICR0 (VSR-400)
  FEATURE (U101)
  SERIAL (*LOCAL)
  PROCRP (*ANY)
  LICKEY [6A8CF DBFBD 572501]
  USGNUM (*NOMAX)
  EXPDTE (*NONE)
  VNDDTA (*NONE)

- **Product name**: WebSphere Development Studio
  Key output: ADELICKEY PRID (5722WDS)
  LICR0 (VSR-400)
  FEATURE (U30)
  SERIAL (*LOCAL)
  PROCRP (*WSS)
  LICKEY [201205 2A066D 746501]
  USGNUM (*NOMAX)
  EXPDTE (*NONE)
  VNDDTA (*NONE)

- **Product name**: Query
  Key output: ADELICKEY PRID (5722Q01)
  LICR0 (VSR-400)
  FEATURE (U50)
  SERIAL (*LOCAL)
  PROCRP (*OS)
  LICKEY [039FE9 3AC6A7 2DD801]
  USGNUM (*NOMAX)
  EXPDTE (*NONE)
  VNDDTA (*NONE)

- **Product name**: IWS
Enter each Key

Add License Key Information (ADDLICKEY)

Type choices, press Enter.

License key input ................... *PROMPT *PROMPT, *LICKEYFILE, *TAPE
Product identifier .................. 5722ssl Identifier
License term ....................... V5R4m0 Vx, VxRy, VxRyMz
Feature ............................. 5050 5001-9999
System serial number ............. *LOCAL Number, *LOCAL, *REMOTE, *ALL
Processor group ................... *ANY Character value, *ANY
License key:
  Characters 1 - 6 .................. 15D93F Character value
  Characters 7 - 12 ................ 550D78 Character value
  Characters 13 - 18 .............. E19701 Character value
Usage limit ........................ *nomax 0-999999, *NOMAX
Expiration date ................... *NONE Date, *NONE
Vendor data ....................... *NONE Character value, *NONE

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys

Bottom

14/040
Confirmation on Key

Command Entry

Previous commands and messages:
> ADDLICKEY PRDID(5722SS1) LICTRM(V5R4M0) FEATURE(5050) SERIAL(*LOCAL) LICKEY(D5D93F 530D78 E18701) USGLMT(*NOMAX)
1 license key information records added to repository.

Type command, press Enter.

---
What we will cover…

- Map, starting, and documentation
- Analyze Object Conversion
- Release Mapping
- HMC, FSP, firmware, & IBM i Models
- Required PTFs, Resaves, and License Keys
- Image Catalogue & Preparing
- Right before the upgrade
- The Upgrade
- Verification
- Conversions & Afterwards
Required Prepare for Installation

- Upgrading from V6R1Mx –
  - SI42213, SI53145, SI51661, SI52932
- Upgrading from V7R1M0 –
  - SI59835, SI52927, SI52990, SI59536
- Upgrading from V7R2M0 –
  - SI60073, SI52910, SI52991, SI59534

- Database Cross Reference Errors upgrading to 7.1 & 7.2
  - V6R1Mx: SI45174, SI47823, SI47825
- 7.2 DB Group SF99702 Level 11 (SI60308 or SI60333) upgrading to 7.3
  - V7R2: SI60586 and then CALL QSYS/QQQFIXVW (Restricted state)
LICPGM  Work with Licensed Programs

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
===> 5

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=Information Assistant
F16=AS/400 Main menu
### Prepare to Install

**System:** ITECH03

Type option, press Enter.

1=Select

<table>
<thead>
<tr>
<th>Opt</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Work with licensed programs for target release</td>
</tr>
<tr>
<td>2</td>
<td>Work with licensed programs to delete</td>
</tr>
<tr>
<td>3</td>
<td>List licensed programs not found on media</td>
</tr>
<tr>
<td>4</td>
<td>Display licensed programs for target release</td>
</tr>
<tr>
<td>5</td>
<td>Work with software agreements</td>
</tr>
<tr>
<td>6</td>
<td>Work with user profiles</td>
</tr>
<tr>
<td>7</td>
<td>Verify system objects</td>
</tr>
<tr>
<td>8</td>
<td>Estimate storage requirements for system ASP</td>
</tr>
<tr>
<td>9</td>
<td>Allocate additional space for LIC</td>
</tr>
<tr>
<td>10</td>
<td>Keep disk configuration</td>
</tr>
</tbody>
</table>

F3=Exit  F9=Command line  F10=Display job log  F12=Cancel
Additional Space required on Load Source for 7.2

• Increase the space for the licensed internal code prior to upgrading.
• The following PTFs are required to be installed first:
  • 6.1.0 MF59327 & SI51661
  • 6.1.1 MF59328 & SI51661
  • 7.1.0 MF59277
  • 7.2.0 MF59329 (Already Allocated – Check only)
• Call QLPALCSP PARM(‘V7R2M0’, ‘0’)
• If coming from V5R2 or V5R3M0 (to V5R4) use the API QLPALCSP. (Increases by 4GB)
Increase License Internal code

Allocate Additional Space for LIC

System: ITECH03

Type choice, press Enter.

Allocate space . . . . . .  *YES  *NO, *YES

Please note that when specifying *YES to this prompt that the next IPL will take some time to complete while the Licensed Internal Code is reserving the additional space. Once this IPL is complete, this action cannot be undone.

F3=Exit  F12=Cancel
The Allocate additional space for LIC option allows you to allocate additional storage space, if needed, for a planned upgrade of Licensed Internal Code (LIC). Either all of the space can be allocated during the next initial program load (IPL) or part of the space can be allocated by a background task and then the remaining space can be allocated during the next IPL.

Background task . . . . .: No
Next IPL . . . . . . . . .: No

Type choices, press Enter.

Allocate space for release . . . . .: *NONE, *NONE, VxRxMx
Start space allocation . . . . . . .: *IMMED, *IMMED, *DELAYED

F3=Exit   F5=Refresh   F12=Cancel
Permanently Apply PTFs

- **APYPTF LICPGM(*ALL) APY(*PERM) DELAYED(*IMMDLY) IPLAPY(*YES)**

- **Saves Space**

- **Can’t have any PTFs set for apply when the upgrade starts.**
Document these System Values

- **WRKSYSVAL**
  - QSYSLIBL _________
  - QUSRLIBL _________
  - QALWOBJRST _____ (Needs to be *All)
  - QVFYOBJRST ______ (Max is 3)
  - QSTRUPPGM ___________

- **Good time to look at your startup program.**
Verify User Profiles & Cross Ref.

Prepare for Install

Type option, press Enter.

1=Select

<table>
<thead>
<tr>
<th>Opt</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Work with licensed programs for target release</td>
</tr>
<tr>
<td></td>
<td>Work with licensed programs to delete</td>
</tr>
<tr>
<td></td>
<td>List licensed programs not found on media</td>
</tr>
<tr>
<td></td>
<td>Display licensed programs for target release</td>
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<tr>
<td></td>
<td>Work with software agreements</td>
</tr>
<tr>
<td></td>
<td>Work with user profiles</td>
</tr>
<tr>
<td>1</td>
<td>Verify system objects</td>
</tr>
<tr>
<td></td>
<td>Estimate storage requirements for system ASP</td>
</tr>
<tr>
<td></td>
<td>Allocate additional space for LIC</td>
</tr>
<tr>
<td></td>
<td>Keep disk configuration</td>
</tr>
</tbody>
</table>

F3=Exit   F9=Command line   F10=Display job log   F12=Cancel
QSECOFR & Libraries

- Make sure the QSECOFR profile:
  - Does not have a secondary language
- All IBM Libraries are in the SYSTEM ASP.

- Check for Secondary languages on machine as you will need new versions.
<table>
<thead>
<tr>
<th>Restart type</th>
<th>*SYS</th>
<th>*SAME, *SYS, *FULL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keylock position</td>
<td>*NORMAL</td>
<td>*SAME, *NORMAL, *AUTO...</td>
</tr>
<tr>
<td>Hardware diagnostics</td>
<td>*MIN</td>
<td>*SAME, *MIN, *ALL</td>
</tr>
<tr>
<td>Compress job tables</td>
<td>*NONE</td>
<td>*SAME, *NONE, *NORMAL...</td>
</tr>
<tr>
<td>Check job tables</td>
<td>*ABNORMAL</td>
<td>*SAME, *ABNORMAL, *ALL, *SYNC</td>
</tr>
<tr>
<td>Rebuild product directory</td>
<td>*NONE</td>
<td>*SAME, *NONE, *NORMAL...</td>
</tr>
<tr>
<td>Mail Server Framework recovery</td>
<td>*NONE</td>
<td>*SAME, *NONE, *ABNORMAL</td>
</tr>
<tr>
<td>Display status</td>
<td>*ALL</td>
<td>*SAME, *SYS, *NONE...</td>
</tr>
<tr>
<td>Start TCP/IP</td>
<td>*YES</td>
<td>*SAME, *YES, *NO</td>
</tr>
<tr>
<td>Clear job queues</td>
<td>*NO</td>
<td>*SAME, *YES, *NO</td>
</tr>
<tr>
<td>Clear output queues</td>
<td>*NO</td>
<td>*SAME, *YES, *NO</td>
</tr>
<tr>
<td>Clear incomplete joblogs</td>
<td>*NO</td>
<td>*SAME, *YES, *NO</td>
</tr>
<tr>
<td>Start print writers</td>
<td>*YES</td>
<td>*SAME, *YES, *NO</td>
</tr>
<tr>
<td>Start to restricted state</td>
<td>*NO</td>
<td>*SAME, *YES, *NO</td>
</tr>
</tbody>
</table>

F3=Exit    F4=Prompt    F5=Refresh    F12=Cancel    F13=How to use this display
F24=More keys
Arrange the media in this Order

- I_BASE_01
- B29xx_01
- B29xx_02
- B29MM_03
- B29MM_04
- D29xx_01
- D29xx_02
- D29xx_03
- D29xx_04
- D29xx_05
- D29xx_06
- L29xx_01
- L29xx_02
- Any F29xx CDs to follow

xx will be 24 for US English

DVDs for 6.1
- I_BASE_01
- B29xx_01
- B29xx_02
- F29xx_01

DVDs 7.1, 7.2, & 7.3
- I_BASE_01
- B_GROUPx_01
- B_GROUPx_02
- B_GROUPx_03
- B_GROUPx_04
- B_GROUPx_05
- F_MULTI_NLV
- F29xx

x will be 1 for Americas & western Europe f/c 5817
Required PTFs Image Catalogues

- Upgrading from V5R3M5 –
  - SI28698, MF42599, MF43355
- Upgrading from V5R4M0 –
  - SI42903, MF51693, MF43154, MF46264, MF47159, MF54341
- Upgrading from V5R4M5 –
  - SI42903, MF53640, MF47160, MF52757, MF53717, MF54314
- Upgrading from V6R1M0 –
  - SI44484, SI57013, MF43198, MF46292, MF47203, MF53927, MF53936, MF53938, MF53949, MF59281
- Upgrading from V6R1M1 –
  - SI44484, SI57013, MF47204, MF51455, MF53864, MF53865, MF54034, MF59282
- Upgrading from V7R1M0 –
  - SI56159, SI59835, MF50235 MF51411, MF53918, MF53919, MF59277, MF59283, MF60229, MF60263 (TR9+)
- Upgrading from V7R2M0 –
  - SI60073, SI57187, SI52981, MF59284, MF59329, MF60475, MF60264 (TR2+)
Create Image Catalogue

Type choices, press Enter.

Image catalog ............................... \( \text{V72UPGRADE} \) Name
Directory ................................. \('/\text{av72upgrade}!'\)

Image catalog type ......................... *OPT, *TAP
Create directory ......................... *YES, *NO
Import image catalog ..................... *NO, *YES
Catalog ASP threshold ................... *CALC, 1-99, *MAX
Add virtual volumes ...................... *NONE, 1-256, *NONE

F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys

1902 - Session successfully started
Create Virtual Optical

Type choices, press Enter.

Device description .................  > OPTVRT01  Name
Resource name ........................ > VRT    Name, *NONE, *VRT...
Device type .......................... > RSRCNAME  *RSRCNAME, 632A, 632B, 632C...
Local internet address ............. > NONE    *NONE, *SRVLAN
Online at IPL ....................... > YES    *YES, *NO
Message queue ........................
Library ................................ > SYSOPR  Name
Text 'description' .................. > Virtual Optical

Additional Parameters

Authority ............................ > *CHANGE  Name, *CHANGE, *ALL, *USE...

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
Optical Devices Required

- OPTVRT01 632B Virtual Optical Device
- OPT01 6331 Optical DVD in CEC
For Each CD in the Order we perform this
Session B - [24 x 80]

Work with Image Catalog Entries

Catalog . . . : V72UPGRADE
Type . . . . : Optical
Directory . . : /av72upgrade

System: ITECH07
Status . . . : Not ready
Device . . . :

Type options, press Enter.
1=Add  2=Change  4=Remove  6=Mount  8=Load  9=Unload
10=Initialize volume  12=Work with volume

Opt  Index  Status  Image File Name
---  -----  ------  ---------------
  _  *AVAIL  
  _   1   Loaded I_BASE_01-C
  _   2   Loaded B_GROUP1_01
  _   3   Loaded B_GROUP1_02
  _   4   Loaded B_GROUP1_03
  _   5   Loaded B_GROUP1_04
  _   6   Loaded B_GROUP1_05
  _   7   Loaded F_MULTI_NLV_WQX
  _   8   Loaded LCD8_1833_00

F3=Exit  F5=Refresh  F6=Load/Unload image catalog  F7=Verify image catalog
F8=Reorder by index  F12=Cancel  F24=More keys

Copyright iTech Solutions
Associate Virtual Optical to Catalogue

Type choices, press Enter.

Image catalog . . . . . . . . . . . . > V72UPGRADE  Name
Option . . . . . . . . . . . . . . . . > *LOAD  Name
Virtual device . . . . . . . . . . . . .  optvrt01
Write protect . . . . . . . . . . . . . . . .  *DFT  Name
Library mode . . . . . . . . . . . . . . . . . .  *NO  Name

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
Optical Device loaded and Ready

<table>
<thead>
<tr>
<th>Opt</th>
<th>Index</th>
<th>Status</th>
<th>Image File Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Mounted</td>
<td>I_BASE_01-C</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Loaded</td>
<td>B_GROUP1_01</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Loaded</td>
<td>B_GROUP1_02</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Loaded</td>
<td>B_GROUP1_03</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Loaded</td>
<td>B_GROUP1_04</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>Loaded</td>
<td>B_GROUP1_05</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>Loaded</td>
<td>F_MULTI_NLV_WQX</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>Loaded</td>
<td>LCD8_1833_00</td>
</tr>
</tbody>
</table>

**Type options, press Enter.**
- 1=Add
- 2=Change
- 3=Move
- 4=Remove
- 5=Mount
- 6=Unmount
- 7=Initialize volume
- 8=Load
- 9=Unload
- 10=Work with volume

**System:** ITECH07

**Catalog:** V72UPGRADE

**Type:** Optical

**Directory:** /av72upgrade
Create List for what to upgrade

<table>
<thead>
<tr>
<th>Opt</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Work with licensed programs for target release</td>
</tr>
<tr>
<td></td>
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<td>List licensed programs not found on media</td>
</tr>
<tr>
<td></td>
<td>Display licensed programs for target release</td>
</tr>
<tr>
<td></td>
<td>Work with software agreements</td>
</tr>
<tr>
<td></td>
<td>Work with user profiles</td>
</tr>
<tr>
<td></td>
<td>Verify system objects</td>
</tr>
<tr>
<td></td>
<td>Estimate storage requirements for system ASP</td>
</tr>
<tr>
<td></td>
<td>Allocate additional space for LIC</td>
</tr>
<tr>
<td></td>
<td>Keep disk configuration</td>
</tr>
</tbody>
</table>

F3=Exit    F9=Command line    F10=Display job log    F12=Cancel

Copyright iTech Solutions
Build the list

<table>
<thead>
<tr>
<th>Choice</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Distribution media</td>
</tr>
<tr>
<td>2</td>
<td>Merge with additional distribution media</td>
</tr>
<tr>
<td>3</td>
<td>Modify previously generated list</td>
</tr>
</tbody>
</table>

**Optical device**: optvrt04

**Target Release**: V7R2M0

F3 = Exit    F12 = Cancel
Select LPPs

File Edit View Communication Actions Window Help

Work with Licensed Programs for Target Release

System: ITECH07

Target release .......... .............. ....... ....: V7R2M0
Estimated additional storage for selections (M): ... : 3219.74

Type options, press Enter.
  1=Select   5=Display release-to-release mapping

<table>
<thead>
<tr>
<th>Opt</th>
<th>Licensed Program</th>
<th>Product Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5770999</td>
<td>*BASE</td>
<td>Licensed Internal Code</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>*BASE</td>
<td>IBM i</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>Library</td>
<td>Library QGPL</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>QUSRSYS</td>
<td>Library QUSRSYS</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>1</td>
<td>Extended Base Support</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>2</td>
<td>Online Information</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>3</td>
<td>Extended Base Directory Support</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>5</td>
<td>System/36 Environment</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>6</td>
<td>System/38 Environment</td>
</tr>
</tbody>
</table>

More...

F3=Exit    F11=Display additional storage    F12=Cancel
F19=Display trademarks

Copyright iTech Solutions
F11 – Additional Storage

```
<table>
<thead>
<tr>
<th>Opt</th>
<th>Licensed Program</th>
<th>Additional Storage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5770999</td>
<td>2432.69</td>
<td>Licensed Internal Code</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>-174.63</td>
<td>IBM i</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>4.48</td>
<td>Library QGPL</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>8.35</td>
<td>Library QUSRYSYS</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>87.67</td>
<td>Extended Base Support</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>1.40</td>
<td>Online Information</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>135.66</td>
<td>Extended Base Directory Support</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>0.00</td>
<td>System/36 Environment</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>0.00</td>
<td>System/38 Environment</td>
</tr>
</tbody>
</table>
```

Type options, press Enter.
1 = Select
5 = Display release-to-release mapping

F3 = Exit  F11 = Display expected release  F12 = Cancel  F19 = Display trademarks

Copyright iTech Solutions
F11 – Expected release

<table>
<thead>
<tr>
<th>Opt</th>
<th>Licensed Program</th>
<th>Expected Release</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5770999</td>
<td>V7R2M0</td>
<td>Licensed Internal Code</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>V7R2M0</td>
<td>IBM i</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>V7R2M0</td>
<td>Library QGPL</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>V7R2M0</td>
<td>Library QUSRSYS</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>V7R2M0</td>
<td>Extended Base Support</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>V7R2M0</td>
<td>Online Information</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>V7R2M0</td>
<td>Extended Base Directory Support</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>V7R2M0</td>
<td>System/36 Environment</td>
</tr>
<tr>
<td>1</td>
<td>5770SS1</td>
<td>V7R2M0</td>
<td>System/38 Environment</td>
</tr>
</tbody>
</table>

F3=Exit  F11=Display expected action  F12=Cancel  F19=Display trademarks
F11 – Expected Action

Type options, press Enter.
1 = Select  5 = Display release-to-release mapping

<table>
<thead>
<tr>
<th>Opt</th>
<th>Program</th>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5770JV1</td>
<td>Replace</td>
<td>IBM Developer Kit for Java</td>
</tr>
<tr>
<td>1</td>
<td>5770JV1</td>
<td>Replace</td>
<td>Java SE 6 32 bit</td>
</tr>
<tr>
<td>1</td>
<td>5770JV1</td>
<td>Replace</td>
<td>Java SE 6 64 bit</td>
</tr>
<tr>
<td>1</td>
<td>5770JV1</td>
<td>Add</td>
<td>Java SE 7 32 bit</td>
</tr>
<tr>
<td>1</td>
<td>5770JV1</td>
<td>Add</td>
<td>Java SE 7 64 bit</td>
</tr>
<tr>
<td>1</td>
<td>5770MG1</td>
<td>Replace</td>
<td>IBM Managed System Services for i</td>
</tr>
<tr>
<td>1</td>
<td>5770NAE</td>
<td>Replace</td>
<td>IBM Network Authentication Enablement for i</td>
</tr>
<tr>
<td>1</td>
<td>5733OMF</td>
<td>Replace</td>
<td>OmniFind Text Search Server for DB2 for i</td>
</tr>
<tr>
<td>1</td>
<td>5770PT1</td>
<td>Replace</td>
<td>IBM Performance Tools for i</td>
</tr>
</tbody>
</table>

F3 = Exit  F11 = Display product option  F12 = Cancel  F19 = Display trademarks

Make more changes or press Enter to confirm changes.
Our menu

Type option, press Enter.
1 = Select

Opt Description
--- ---------------------------------------------------
1 Work with licensed programs for target release
2 Work with licensed programs to delete
3 List licensed programs not found on media
4 Display licensed programs for target release
5 Work with software agreements
6 Work with user profiles
7 Verify system objects
8 Estimate storage requirements for system ASP
9 Allocate additional space for LIC
10 Keep disk configuration

F3 = Exit F9 = Command line F10 = Display job log F12 = Cancel

10/03
Software to Delete – Should be Empty

![Software to Delete Interface]

Target release: V7R2M0

Type options, press Enter:
1 = Save  
4 = Delete

<table>
<thead>
<tr>
<th>Opt</th>
<th>Licensed Program</th>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>5733QU2</td>
<td>*BASE</td>
<td>IBM DB2 Web Query for i</td>
</tr>
<tr>
<td>-</td>
<td>5733QU2</td>
<td>1</td>
<td>Active Reports</td>
</tr>
<tr>
<td>-</td>
<td>5733QU2</td>
<td>2</td>
<td>OLAP Enablement</td>
</tr>
<tr>
<td>-</td>
<td>5733QU2</td>
<td>4</td>
<td>Run Time User Enablement</td>
</tr>
<tr>
<td>-</td>
<td>5733QU2</td>
<td>5</td>
<td>Spreadsheet Client</td>
</tr>
<tr>
<td>-</td>
<td>5733QU2</td>
<td>6</td>
<td>Adapter for Microsoft SQL Server</td>
</tr>
</tbody>
</table>

F3 = Exit  
F9 = Command line  
F11 = Display reasons  
F12 = Cancel  
F19 = Display trademarks

Copyright iTech Solutions
Licensed Programs Not Found on Media

Target release ............: V7R2M0

Type options, press Enter.
5=Display release to release mapping

Licensed  Product
Opt  Program  Option  Description

(All licensed programs were found on media)

F3=Exit    F12=Cancel    F19=Display trademarks

Copyright iTech Solutions
Software for Target release

<table>
<thead>
<tr>
<th>Opt</th>
<th>Program</th>
<th>Description</th>
<th>Expected Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>_</td>
<td>5770SS1</td>
<td>Digital Certificate Manager</td>
<td>Replace</td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td>International Components for Unicode</td>
<td>Replace</td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td>Additional Fonts</td>
<td>Replace</td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td>IBM Advanced Data Security for i</td>
<td>Add</td>
</tr>
<tr>
<td>_</td>
<td>5770DG1</td>
<td>IBM HTTP Server for i</td>
<td>Replace</td>
</tr>
<tr>
<td>_</td>
<td>5770JV1</td>
<td>IBM Developer Kit for Java</td>
<td>Replace</td>
</tr>
<tr>
<td>_</td>
<td>5770JV1</td>
<td>Java SE 6 32 bit</td>
<td>Replace</td>
</tr>
<tr>
<td>_</td>
<td>5770JV1</td>
<td>Java SE 6 64 bit</td>
<td>Replace</td>
</tr>
<tr>
<td>_</td>
<td>5770JV1</td>
<td>Java SE 7 32 bit</td>
<td>Add</td>
</tr>
</tbody>
</table>

F3=Exit  F9=Command line  F11=Display view 2  F12=Cancel  F19=Display trademarks
Accept Software Licenses

Currently selected language :  English

Type options, press Enter.
4=Remove  5=Display  6=Print

<table>
<thead>
<tr>
<th>Opt</th>
<th>Licensed</th>
<th>Product</th>
<th>Product Option</th>
<th>Release</th>
<th>Accept Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*MCHCOD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td>*BASE</td>
<td>V7R2M0</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td></td>
<td>13</td>
<td>V7R2M0</td>
<td>No</td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td></td>
<td>29</td>
<td>V7R2M0</td>
<td>No</td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td></td>
<td>30</td>
<td>V7R2M0</td>
<td>No</td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td></td>
<td>31</td>
<td>V7R2M0</td>
<td>No</td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td></td>
<td>33</td>
<td>V7R2M0</td>
<td>No</td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td></td>
<td>39</td>
<td>V7R2M0</td>
<td>No</td>
</tr>
<tr>
<td>_</td>
<td>5770SS1</td>
<td></td>
<td>47</td>
<td>V7R2M0</td>
<td>No</td>
</tr>
<tr>
<td>_</td>
<td>5770DG1</td>
<td>*BASE</td>
<td>V7R2M0</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>_</td>
<td>5770JV1</td>
<td>*BASE</td>
<td>V7R2M0</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

F3=Exit  F11=Display description  F12=Cancel  F13=Select language
F19=Display trademarks  F22=Restore software agreements

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86
Accept Software Licenses

Software Agreement

Licensed program : 5770SS1
Licensed program option : *BASE
Release : V7R2M0

IMPORTANT: READ CAREFULLY

Two license agreements are presented below.

1. IBM International License Agreement for Evaluation of Programs
2. IBM International Program License Agreement

If Licensee is obtaining the Program for purposes of productive use
(other than evaluation, testing, trial "try or buy," or demonstration):
By clicking on the "Accept" button below, Licensee accepts the IBM
International Program License Agreement, without modification.

F3=Exit  F6=Print  F12=Cancel  F13=Select available language  F14=Accept
F15=Accept all  F16=Decline  F17=Top  F18=Bottom

More...

I902 - Session successfully started
Everyone must display YES
Estimate Additional Storage

When upgrading to the target release, type the additional storage required below. You will need to factor in new and updated PRPQ and LPO sizes, as well as, other third party software sizes.

The information you provide, along with the value for "Estimated Additional Storage for Selections (M)" on the Work with Licensed Programs for Target Release display, will be used to estimate storage requirements.

Type value, press Enter.

Additional storage required . . . . . . 4162 M
We have enough Disk space

![Image of Estimated Storage Requirements for System ASP]

- Target release: V7R2M0
- Current supported system capacity (M): 1702770
  - Storage used (M): 948132
- Storage required to install target release (M): 956456
- Install growth:
  - Licensed program growth (M): 4162
- Install will multi-process: Yes

Press Enter to continue.
F3=Exit  F11=Show multi-process details  F12=Cancel
Set Console Type

Select one of the following:

1. Start a service tool
2. Work with active service tools
3. Work with disk units
4. Work with diskette data recovery
5. Work with system partitions
6. Work with system security
7. Work with service tools user IDs and Devices

Selection 8

F3=Exit  F10=Command entry  F12=Cancel

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Select Console

Select one of the following:
1. Service tools user IDs
2. Service tools device IDs
3. Select console
4. Configure service tools LAN adapter

Selection

F3=Exit  F5=Display LAN adapter configure on DASD
F6=Clear LAN adapter configure on DASD  F12=Cancel
F13=Select STS LAN adapter

I02 - Session successfully started
Select YOUR console
• Collect the data again and verify that there are NO programs on this report that you expect to run at 6.1 or 7.1 !!!
What we will cover…

- Map, starting, and documentation
- Analyze Object Conversion
- Release Mapping
- HMC, FSP, firmware, & IBM i Models
- Required PTFs, Resaves, and License Keys
- Image Catalogue & Preparing
- Right before the upgrade
- The Upgrade
- Verification
- Conversions & Afterwards
If Using two-phase Commit

<table>
<thead>
<tr>
<th>Job name</th>
<th>*all______</th>
<th>Name, *, *ALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>User</td>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>Number</td>
<td>_______</td>
<td>000000-999999</td>
</tr>
<tr>
<td>Status</td>
<td>*resync_</td>
<td>*ALL, *PENDING, *RESYNC...</td>
</tr>
<tr>
<td>ASP group</td>
<td>*ALLAVL_</td>
<td>Name, *ALLAVL, *SYSBAS</td>
</tr>
<tr>
<td>Logical unit of work ID</td>
<td>*ALL</td>
<td></td>
</tr>
</tbody>
</table>

| Output | *______ | *, *PRINT |

F3=Exit  F4=Prompt  F5=Refresh  F10=Additional parameters  F12=Cancel
F13=How to use this display  F24=More keys
No Commitment Definitions

Type options, press Enter.
5=Display status 12=Work with job 14=Forced commit
16=Forced rollback ...

<table>
<thead>
<tr>
<th>Commitment</th>
<th>Job</th>
<th>Job</th>
<th>Job</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opt</td>
<td>Definition</td>
<td>Number</td>
<td>User</td>
</tr>
<tr>
<td>Job</td>
<td>Name</td>
<td>Thread</td>
<td>User</td>
</tr>
</tbody>
</table>

(No commitment definitions are active)

F3=Exit  F5=Refresh  F9=Command line  F11=Display resync in progress
F12=Cancel  F16=Sort by user  F17=Position to  F23=More options
Most important Step – FULL SAVE (21 or BRMS)

Select one of the following:

Save System and User Data
20. Define save system and user data defaults
21. Entire system
22. System data only
23. All user data

Save Document Library Objects
30. All documents, folders, and mail
31. New and changed documents, new folders, all mail
32. Documents and folders
33. Mail only
34. Calendars

Selection or command

F3=Exit   F4=Prompt   F9=Retrieve   F12=Cancel   F13=Information Assistant
F16=System Main menu
Verify for Upgrade

Verify Image Catalog (VFYIMGCLG)

Type choices, press Enter.

Image catalog . . . . . . . . . . . . . > V72 UPGRADE
Verify type . . . . . . . . . . . . . . . *UPGRADE
Sort image catalog . . . . . . . . . *Yes
Network file server share . . . . . *No
Language . . . . . . . . . . . . . . . *DFT

Name
*UPGRADE, *PTF, *OTHER
*No, *YES
*No, *YES
2901-2999, *DFT

F3=Exit    F4=Prompt    F5=Refresh    F12=Cancel    F13=How to use this display
F24=More keys

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NOT Good
Work with Image Catalog Entries

System:
Catalog . . . : UPGRADE
Type . . . . . : Optical
Directory . . : /V6R1
Status . . . : Ready
Device . . . . : OPTVVT01

Type options, press Enter.
1=Add  2=Change  4=Remove  6=Mount  8=Load  9=Unload  10=Initialize volume  12=Work with volume

Opt  Index  Status     Image File Name
----  ----  ---------  ------------------
    *AVAIL
    1 Mounted  I_BASE_01
    2 Loaded   B2924_01
    3 Loaded   B2924_02
    4 Loaded   F2924_01
    5 Loaded   F2935_01
    6 Loaded   F_MULTI_NLV

F3=Exit  F5=Refresh  F6=Load image catalog  F7=Verify image catalog
F8=Reorder by index  F12=Cancel  F24=More keys

Image catalog UPGRADE, type *UPGRADE verified.
What we will cover...

• Map, starting, and documentation
• Analyze Object Conversion
• Release Mapping
• HMC, FSP, firmware, & IBM I
• Models
• Required PTFs, Resaves, and License Keys
• Image Catalogue & Preparing
• Right before the upgrade
  • The Upgrade
• Verification
• Conversions & Afterwards
Start the Upgrade
Sit back and relax while Image Catalogues do the work
Next on the console

Install Licensed Internal Code - Status

Install of the Licensed Internal Code in progress.

+---------------------------------------------------------------------------+
Percent | XX % | Complete +--------------------------------------------------------------------------+

Elapsed time in minutes . . . . . . . : x.x
IBM i being installed

<table>
<thead>
<tr>
<th>Stage</th>
<th>Completed</th>
<th>Restored</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Creating needed profiles and libraries . . . . :</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>&gt;&gt; 2 Restoring programs to library QSYS . . . . . :</td>
<td>XXXXX</td>
<td></td>
</tr>
<tr>
<td>3 Restoring language objects to library QSYS . . :</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Updating program table . . . . . . . . . . . . . :</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Installing database files . . . . . . . . . . . :</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 Installing base directory objects . . . . . :</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Completing installation . . . . . . . :</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Message ID. . . : CPI2070

i5/OS Installation Status

+---------------------------------------------------+
<table>
<thead>
<tr>
<th>Stage 2</th>
<th>XX %</th>
</tr>
</thead>
</table>
+---------------------------------------------------+

i5/OS is a trademark of IBM in the United States and other countries.
## Installing Licensed Programs

System: ITECH05

Licensed programs processed . . . . . . . . . . . .: 16 of 67

<table>
<thead>
<tr>
<th>Program</th>
<th>Option</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5770SS1</td>
<td>3</td>
<td>Extended Base Directory Support</td>
<td>*PGM</td>
</tr>
<tr>
<td>5770SS1</td>
<td>8</td>
<td>AFP Compatibility Fonts</td>
<td>*PGM</td>
</tr>
<tr>
<td>5770SS1</td>
<td>12</td>
<td>Host Servers</td>
<td>*PGM</td>
</tr>
<tr>
<td>5770SS1</td>
<td>13</td>
<td>System Openness Includes</td>
<td>*PGM</td>
</tr>
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<td>29</td>
<td>Integrated Server Support</td>
<td>*PGM</td>
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<td>5770SS1</td>
<td>33</td>
<td>Portable App Solutions Environment</td>
<td>*PGM</td>
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<td>43</td>
<td>Additional Fonts</td>
<td>*PGM</td>
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<tr>
<td>5770BR1</td>
<td></td>
<td>IBM Backup, Recovery and Media Services for i</td>
<td>*PGM</td>
</tr>
<tr>
<td>5770DG1</td>
<td>*BASE</td>
<td>IBM HTTP Server for i</td>
<td>*PGM</td>
</tr>
<tr>
<td>5781JV1</td>
<td>*BASE</td>
<td>IBM Developer Kit for Java</td>
<td>*PGM</td>
</tr>
<tr>
<td>5770NAE</td>
<td>*BASE</td>
<td>IBM Network Authentication Enablement for i</td>
<td>*PGM</td>
</tr>
<tr>
<td>5770TC1</td>
<td>*BASE</td>
<td>IBM TCP/IP Connectivity Utilities for i</td>
<td>*PGM</td>
</tr>
</tbody>
</table>

Copying temporary files from installation device

More...
What we will cover…

- Map, starting, and documentation
- Analyze Object Conversion
- Release Mapping
- HMC, FSP, firmware, & IBM I
- Models
- Required PTFs, Resaves, and License Keys
- Image Catalogue & Preparing
- Right before the upgrade
- The Upgrade
- Verification
- Conversions & Afterwards
When Complete Check

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
(C) COPYRIGHT IBM CORP. 1980, 2007.
Display History Log Contents

V7R1M0 version, release and modification level of library QSYS installed.
Licensed program installation process started.
Install of IBM i directories completed.
Library QGPL installed.
Library QUSR(SYS installed.
*PGM objects for product 5770SS1 option 1 release V7R1M0 restored.
*PGM objects for licensed program 5722BZ1 option *BASE already installed.
*LANG objects for NLV 2984 for product 5770SS1 option 1 release V7R1M0 restore
*PGM objects for product 5770SS1 option 2 release V7R1M0 restored.
*PGM objects for product 5770SS1 option 7 release V7R1M0 restored.
*PGM objects for product 5770SS1 option 44 release V7R1M0 restored.
*PGM objects for product 5770SS1 option 22 release V7R1M0 restored.
*PGM objects for product 5770SS1 option 18 release V7R1M0 restored.
License key information not found.
*PGM objects for product 5770QU1 option *BASE release V7R1M0 restored.
License key information not found.
*LANG objects for NLV 2984 for product 5770SS1 option 22 release V7R1M0 restor

Press Enter to continue.

F3=Exit    F10=Display all    F12=Cancel
Automatic Installation completed

Display History Log Contents

* PGM objects for product 5722XH2 option *BASE release V5R4M0 restored.
* LNG objects for NLV 2924 for product 5722XH2 option *BASE release V5R4M0 restored.
* PGM objects for product 5722SS1 option 3 release V5R4M0 restored.
License key information installed for 5722SS1.
* LNG objects for NLV 2924 for product 5722SS1 option 3 release V5R4M0 restored.
* PGM objects for licensed program 5722CE3 option *BASE may require installation.
* LNG objects for licensed program 5722CE3 option *BASE may require installation.
* PGM objects for licensed program 5722IWE option *BASE may require installation.
* LNG objects for licensed program 5722IWE option *BASE may require installation.
* PGM objects for licensed program 5722IWE option 02 may require installation.
* LNG objects for licensed program 5722IWE option 02 may require installation.
Some licensed programs not found on media.
Licensed program installation process completed successfully.
Automatic installation completed successfully.

Press Enter to continue.

F3=Exit    F10=Display all    F12=Cancel
Verify

- Check messages in QSYSOPR
- Should not see any license Key messages
- Display LICPGM everything at right release
- Load any Special PTFs first and IPL back to restricted..
- Then load the PTFs (Cumulative, Groups, DB) & then IPL
Multiple IPLs possible
INZSYS Started after First IPL

Work with Messages

System: AS400

Messages in: QSYSOPR

Type options below, then press Enter.
  4=Remove  5=Display details and reply

Opt   Message
  -    192.168.110.3 interface not started.
  -    Conversion of mail logs complete.
  -    0 writers started, 1 writers did not start.
  -    Initialization of calendar files complete.
  -    Line ETHERNET2 failed.
  -    Initialize System (INZSYS) started.
  -    Interface ::1 is active.
  -    IPv6 interface started successfully.
  -    Interface 192.168.210.3 is active.
  -    User QTCP started IP interface 192.168.210.3 on ETHERNET.
  -    Controller ETHERNET contacted on line ETHERNET.
  -    Interface 127.0.0.1 is active.

More...

F1=Help   F3=Exit   F5=Refresh   F16=Remove messages not needing a reply
F17=Top   F18=Bottom   F24=More keys
INZSYS Completed

Work with Messages

System: AS400

Messages in: QSYSOPR

Type options below, then press Enter.
4=Remove  5=Display details and reply

Opt  Message

Messages needing a reply
(No messages available)

Messages not needing a reply

IBM Directory Server started successfully.

Log version QHST07057B in QSYS closed and should be saved.

Initialize System (INZSYS) processing completed successfully.

iSeries Support for Windows Network Neighborhood (iSeries NetServer)
AS400 initialization complete.

Volume C6841473_01 added to optical device.

*** E3 PURCHASE ORDER FILES HAVE BEEN SENT TO THE E3XFER LIBRARY ***

From . . . : QSECOFR  02/26/07  14:30:37

More...

F1=Help  F3=Exit  F5=Refresh  F18=Remove messages not needing a reply
F17=Top  F18=Bottom  F24=More keys

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- The Upgrade
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- Conversions & Afterwards
Afterwards

- Update System Values that you changed.
- CFGACCWEB2
- Enable Service Director
- Check PM400 (GO PMAGT)
- Performance Data
- Delete Image Catalogues
- Test SNDPTFORD & SNDSRVRQS
- Cleanup PTF Groups WRKPTFGRP
- Update Client Access Clients
- Update iSeries Integrated Windows Servers
Conversions

- **V6R1 – ALL PROGRAMS**
- See program on www.itechsol.com under newsletters
Conversions

- **V5R4**
  - Data Queues
  - User Queues
  - *FILES
  - SQLPGMs
- **7.3**
  - Libraries
SAVE – New starting point

- Full Save if have the time
- Otherwise (GO SAVE 22)
  - SAVSYS
  - SAVLIB *IBM
  - SAV ('/QIBM/ProdData') + ('/QOpenSys/QIBM/ProdData')

Don’t Forget
7 Key Points to take home

- ANZOBJCVN, ANZOBJCVN, ANZOBJCVN !!!
- Get the required PTFs on your system before the upgrade.
- Check FSP Firmware minimum levels.
- Have a Good **FULL** Backup right before the upgrade.
- Have license keys and new PTFs available.
- Conversions need to complete afterwards.
- SAVE 22 or Full save after the conversions.
Your Turn!

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