



Infor XA R9.2

Service Pack Apply Instructions
SH16054

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Infor XA R9.2 Service Pack Apply Instructions

The instructions in this document explain how to apply Infor XA release 9.2 Service Pack SH16055. The information in this document will be updated periodically, so be sure you have the latest version of these instructions before proceeding.

An XA environment must be at PTF level 04237 before updating it with Service Pack SH16055. You must apply these items in the following sequence:

- 1 See SH15739 for additional OS/PTF requirements.
- 2 Release 9.2 Infor XA Prerequisite PTF for Service Pack SH16055 – [SH16053](#)
- 3 Service Pack for Infor XA R9.2 SH16055 PTF 20079 – available on the [Software Download Center](#)
- 4 See KB 1692659 - Analyze all Control Files -- CTL* -- before applying 9.2

This step updates the server for XA business environments to PTF level 20079. On the Infor ERP XA R9 product information page of the Software Download Center, locate the Service Pack in the list:

New Versions		Release Archive
Release	Description	Date Available
R9.2	PCM for Infor XA SH16055 PTF 20079 Objects only - Upgrades R9.1 EP2 to R9.2	Download Log

See the [Service Pack apply instructions](#) on page 10 for detailed prerequisite and apply instructions.

What you should know

Consider the following as part of your planning for the Service Pack:

- Infor XA Environment Availability

For a limited period, the server install must have exclusive use of all XA environments on the system. XA processes, including client processes, must be stopped for all environments. Affected environments include those at XA release R9 and prior XA release R7.8 PTF 09955 and above.

- Infor XA Client Level

At Release 9.2, Link Manager supports the installation of the Release 9.2 client under two different models:

- Release 9.2 business environments within an existing Release 9.1 global environment.

The Release 9.1 global environment must be at the minimum client level of 02.09.00.03.45 in order to run a Release 9.2 Business Environment and to apply the 9.2 Help.

If the global environment is not at 02.09.00.03.45, this message shows: “The global environment must be at fix level 02.09.00.03.42 or higher, before the fix 02.09.02 can be applied to environment”. To resolve this issue, you must apply Fix level **02.09.00.03.45** or higher to the global environment.

- Release 9.2 Global Environment with Release 9.2 business environments.

If you are installing Release 9.2 for the purpose of testing and evaluating the new release, and you do not have multiple partitions on your IBM i, you may choose to minimize the impact to your production environments by creating a Release 9.2 environment within your current Release 9.1 Global environment structure. If you can install Release 9.2 in a new partition, you may choose to create a Global and a Business Environment at Release 9.2.

- Infor XA Help

Release 9.2 help can be applied to the 9.1 global environment. The global environment must be at fix level 02.09.00.03.45 or higher. At least one business environment must be at the Release 9.2 fix level.

If the global environment is at a lower level than 02.09.00.03.45, this message shows: “The global environment must be at fix level 02.09.02 or higher, before the fix 02.09.02 can be applied to environment”. To resolve this issue, you must apply Fix level **02.09.00.03.45** or higher to the global environment.

- This Service Pack has 2 volumes:

- SH16055OBJ

- Contains the ACSAPPLY library and all the application object changes
- Available to all customers who have a license for Infor XA

- SH16055SRC

- Contains the source for the modified objects delivered with this Service Pack
- Available only to those customers who have a license for Infor XA source code

See [Infor XA Source Code Availability \(SH15623\)](#) for more information about the availability of source code.

- XA R9 Migration Tool

The R9 migration tool SH15636 is not compatible with this Service Pack level.

A new Release 9.2 Migration Tool will be available later this year.

- XA Translation Requirements

Translated environments require translation updates for this Service Pack; refer to [SH94330](#) for the availability of translation updates for this Service Pack for all languages installed in the environment. Applying the Service Pack to a translated environment without the translation update(s) may cause significant issues in XA's operation. If there is not a corresponding translation update for this Service Pack, do not apply this Service Pack.

If there is a corresponding translation update for this Service Pack, download and apply it after applying this Service Pack.

- PTF level of delivered objects

After this Service Pack has been applied to your environment(s), some objects may show a PTF number that is higher than the PTF level of this Service Pack. This is normal since some of the installed objects are delivered with either SH16053 or SH16054 PTF. These PTFs may contain fixes that are branded at a higher level than the Service Pack level.

- Verify System i PTF levels

This Service Pack may include a PTF which will, by default, select the highest Infor supported Java JRE that is available on the system. Prior to the application of this Service Pack, you should make sure the system has the current IBM Java group PTF to facilitate the higher level of IBM Java JRE. Contact Infor support for the current Infor supported JRE versions.

- Verify XA Java JRE Service levels

This Service Pack may include a PTF which will, by default, select the highest Infor supported Java JRE that is available on the system regardless of compatibility with your existing XA environments. Prior to the application of this Service Pack, you should make sure the XA environments on the system can support the higher JRE level. Contact Infor support for the latest information as this is subject to change.

As of the date of this document, the following IBMi JRE versions are supported:

- XAR7.0 is only supported with JRE 1.4
- XAR7.8 is supported with JRE 1.4 and 1.6 assuming the required XA PTFs have been applied to support the 1.6 JRE version.
- XAR9.0 and older releases of XA (i.e XAR7.8) are not supported on i 7.2
- XAR9.1 is supported with JRE 1.4, 1.6, 1.7 and 1.8 assuming the required XA PTFs have been applied to support the higher JRE versions.
- XAR9.2 is supported with JRE 1.4, 1.6, 1.7 and 1.8

Refer to the Infor XA Support for i 7.1/i 7.2 (SH15739)

- Operating System levels

Refer to the Infor XA IDF Technical Planning Guide (SH14412) for information on the IBM i or Windows OS levels.

Using downloaded media

The Software Download Center site provides electronic disc images you can use to install or update Infor XA. Using publicly available software, you can burn the images to create install discs, or you can transfer the images to a computer and mount them as a virtual device. For information about how to use disc images, see [Using ISO CD Images](#) section on the Software Download Center.

You may want to consider using a download utility to reduce download times. One such tool is Download Manager (www.freedownloadmanager.org).

The sections below contain instructions for using ISO images on the System i and information about tools you can use on a Windows PC.

System i

These four steps explain how to load the release 9.2 Infor XA Service Pack - SH16055 as virtual media on your System i, transfer the media data to the virtual image catalog, and use the virtual image:

- [Step 1: Create the virtual device and catalog.](#)
- [Step 2: Copy the virtual image to the image catalog directory.](#)
- [Step 3: Add the virtual image to the image catalog.](#)
- [Step 4: Load the virtual image.](#)

Step 1: Create the virtual device and catalog.

- 5 Create a virtual device description, if it does not already exist.

```
CRTDEVOPT DEVD(OPTVRT01) RSRNAME(*VRT)
```

Note: A virtual device can be recognized by its device type 632B.

- 6 Vary on the device description if necessary.

```
VRYCFG CFGOBJ(OPTVRT01) CFGTYPE(*DEV) STATUS(*ON)
```

- 7 Create an image catalog and an IFS directory to store the image(s) if they do not already exist.

```
CRTIMGCLG IMGCLG(PCMS) DIR('/PCMimages') CRTDIR(*YES)
```

Note: If you already have an IFS directory where you will be storing the images, but want to create an image catalog using that directory, use CRTDIR(*NO).

Step 2: Copy the virtual image to the image catalog directory.

After downloading the .iso image file from the Software Download Center, transfer it to the IFS folder where you have the image catalog entries stored. (You can use Windows Explorer, iSeries Navigator, or ftp.) Rename the iso image to 'SH16055' (without the '.iso' extension.)

Example: This example assumes that the R9.2 Service Pack .iso image file has been downloaded on your local C:\ drive, and you want to transfer it to MYSYSTEMI, image catalog PCMS, IFS folder /PCMimages.

Using ftp from a command prompt, the prompt would look like this:

```
- ftp mysystemi.mydomain.com    (You must log on)
- quote site namefmt 1
- bin
- cd /PCMimages
- lcd c:\
- put XA92_GA_ServerPCM_SBCS_PTF20079_SH16055OBJ_20150713C_Voll_of_1.iso
SH16055
- quit
```

Step 3: Add the virtual image to the image catalog.

After copying the .iso image file into the IFS directory, add the file to the image catalog:

```
ADDIMGCLGE IMGCLG(PCMS)

FROMFILE('/PCMimages/SH16055')

TOFILE(*FROMFILE)
```

Step 4: Load the virtual image.

To use the virtual image, you need to mount it in the catalog and load the catalog in a virtual optical device:

- 1 Work with the image catalog.

```
WRKIMGCLG IMGCLG(PCMS)
```

- 2 Use option 12 (Work with Entries), then use options 6 (Mount) for the SH16055 entry.

Caution: DO NOT USE option 4 (Remove) unless you really want to delete the catalog entry and the associated image.

- 3 Load the Service Pack image into the virtual optical drive.

```
LODIMGCLG IMGCLG(PCMS) DEV(OPTVRT01) OPTION(*LOAD)
```

Note: Alternatively, you can use WRKIMGCLG, specify option 8 (Load), and then enter the virtual optical device name.

Service Pack apply instructions

This topic contains instructions for applying Service Pack SH16055 and its prerequisite PTFs. This topic has three steps. **These steps must be performed in the following order:**

- [Step 1: Apply prerequisite PTFs](#)
- [Step 2: Apply the R9.2 Service Pack \(SH16055\)](#)
- [Step 3: Apply post-requisite PTFs](#)

Note: See KB 1692659 - Analyze all Control Files -- CTL* -- before applying 9.2

Step 1: Apply prerequisite PTFs

Download and apply the following prerequisite PTFs to the environments indicated below.

XA92:

[SH16053](#) – Required database changes for Service Pack SH16055

Note: To apply the PTF, follow the instructions in the cover letter (SH16053690.TXT).

The Currencies and Exchange Rates objects (Exchange Rates, Exchange Rate Sets, and Exchange Rate Limits) are activated during the upgrade process to release 9.2 level of XA.. Before you upgrade to release 9.2, you must verify each XA Release 9.1 environment meets the requirements to activate the Currencies and Exchange Rates objects. This was supplied by PTF SH56103 – Currency Synchronization that was applied during SH16053.

- 1 On the iSeries where your XA environment is installed, navigate to the Application Selection menu.
- 2 Specify the command XACHKR92I and press Enter.
- 3 Press Alt+F1 to view additional message information.
- 4 If there are no errors (or the finance application setting currency and exchange rate is already active), press Enter.
- 5 If there are errors, check the spool file for details. Fix any errors that prevent the Currencies and Exchange Rates objects from being activated. Run the XACHR92I command until there are no errors.

Step 2: Apply the R9.2 Service Pack (SH16055)

- 1 Before applying the Service Pack, do the following:
 - a. Perform a full system backup.
 - b. Delete ALL ABENDED jobs listed in the "Job Status" function for the environment (log in to XA and use menu AMZM30 option 1). At the end of the Service Pack, the system will

try to run the Install/Tailor function automatically. The Install/Tailor will terminate if ANY ABENDED jobs are found in Job Status.

- 2 Sign off the System i and sign on as QSECOFR. Do NOT go into XA.

Note: Using user profile QSECOFR is no longer required by ACSAPPLY; however, the user profile you use must have the special authorities *ALLOBJ, *SECADM and *JOBCTL.

The user profile that is being used should have authorization to ACCMAPICS, AMZ SEC/11, and AMZM0006. This is to insure that Install/Tailor Applications will be run during the Service Pack Update. If the user profile does not have the above authorizations, then the Install/Tailor Applications will have to be run after the Service Pack Update with a user profile that has these authorizations.

- 3 Display the ACSAPPLY library to see if it exists:

```
DSPLIB LIB(ACSAPPLY)
```

- 4 If the library exists, delete it:

```
DLTLIB LIB(ACSAPPLY)
```

- 5 Restore the ACSAPPLY library from the SH16055 Service Pack image:

```
RSTLIB SAVLIB(ACSAPPLY) DEV(<opticaldevicename>) MBROPT(*ALL)
```

where <opticaldevicename> is the name of the optical device where you have loaded the Service Pack, typically OPTVRT01 for a virtual drive or OPT01 for a physical drive

- 6 Display the AS20920079 library to see if it exists:

```
DSPLIB LIB(AS20920079)
```

- 7 If the library exists, clear it:

```
CLRLIB LIB(AS20920079)
```

If the library does not exist, create it:

```
CRTLIB LIB(AS20920079)
```

- 8 Download and apply objects in SH16054692 to the AS20920079 library:

```
RSTOBJ OBJ(*ALL) SAVLIB(AS20920079) DEV(*SAVF) +
```

```
SAVF(QGPL/SH16054692) RSTLIB(AS20920079)
```

Important: SH16054692 is periodically updated to resolve reported issues. You must verify you have the latest version of this PTF before continuing.

The fix is now loaded on your system. The changed programs in the AS20920079 library will run automatically when you run the ACSAPPLY command.

- 9 Move added or changed objects to the ACSAPPLY library:

```
CALL AS20920079/MOVACSPGM
```

- 10 Run ACSAPPLY for Service Pack SH16055. Apply this Service Pack to each of your XAR9 (PTF 04237) environments that you plan to update:

CALL ACSAPPLY/ACSAPPLY

For step-by-step instructions on applying the Service Pack, see the *CAS User's Guide*, "Appendix C (Program Corrective Maintenance)" starting at page C-3.

Notes:

- It is recommended that you apply the Service Pack from disk and that you use the F8 (Auto-select) function to load and apply the Service Pack.
 - If you are applying the Service Pack to a SHARED environment, you will need to apply the Service Pack to **each** environment sharing the same AMALIB and AMXLIB libraries.
- 11** After all your environments have been updated to R9.2 Service Pack SH16055 (PTF 20079), you should delete the AS20920079 library from your system:

```
DLTLIB LIB(AS20920079)
```

Step 3: Apply post-requisite PTFs

- Download and apply the following:

[SH16097](#)

Note: To apply the PTFs, follow the instructions in the cover letter for the PTF(s).

It is highly recommended that you use Product Updates to view PTFs that were released after the Service Pack level just installed. There may be other critical PTFs that need to be applied. Review the PTFs and apply as needed. If you are new to Product Updates, refer to [SH15513](#) and [SH15710](#).

Step 4: Update the Client to Release 9.2

Important: To update the Global environment and business environments to Release 9.2, complete these steps.

- 1 Download the R9.2 ERP XA Client Applications Install image, XAR92_20151028U_Vol1_of_1.iso - available on the [Software Download Center](#)
- 2 Download the following:
 - [SH16073](#) - Client R9.2 Fixes -02.09.02.01.01.zip
 - [SH16095](#) - Client R9.2 HPS Install -02.09.02.dat
 - [SH16096](#) - Client R9.2 Help Install -02.09.02.dat
 - [SH16076](#) - Client R9.2 Help Fixes -02.09.02.01.01.dat

- 3 Load the installation media for the R9.2 ERP XA Client Applications into your Windows PC. When the media is loaded, a window will automatically open to an install guide entitled Getting Started for Administrators. If the guide does not open automatically, you can launch it by running StartHere.html located in the root folder of the install image.
- 4 When prompted at step 4 (Install the latest updates), apply fix build 02.09.02.01.01.
- 5 Log out of Link Manager.
- 6 Log back into Link Manager and complete the R9.2 installation process by applying base 02.09.02 and fix build 02.09.02.01.01 to business environments as required. Also select the Run Integrator Synchronizaton task when applying the fix build.
- 7 Refer to SH16095 on how to install HPS.
- 8 Refer to SH16096 and SH16076 on how to install Help fixes.

Step 5: Upgrade Business Environment to Release 9.2

Important: To upgrade a business environment to Release 9.2 without updating the current global environment, complete these steps.

- 1 Download the following:
 - [SH15782](#) - Client R9.1 Fixes -02.09.00.03.xx.zip
 - [SH16093](#) - Client R9.2 Install -02.09.02.zip
 - [SH16073](#) - Client R9.2 Fixes -02.09.02.01.01.zip
 - [SH16095](#) - Client R9.2 HPS Install -02.09.02.dat
 - [SH16096](#) - Client R9.2 Help Install -02.09.02.dat
 - [SH16076](#) - Client R9.2 Help Fixes -02.09.02.01.01.dat
- 2 Use Link Manager to apply fix build 02.09.00.03.xx (at least 02.09.00.03.45) to your global environment.
- 3 Log out of Link Manager.
- 4 Log back into Link Manager and apply base 02.09.02 and fix build 02.09.02.01.01 to your business environment. Also select the Run Integrator Synchronizaton task when applying the fix build.
- 5 Refer to SH16095 on how to install HPS.
- 6 Refer to SH16096 and SH16076 on how to install Help.

List of changes to PTF SH16054

Note: PTF SH16054 is a DYNAMIC PTF. This means that it may be updated to include additional changes that need to be applied BEFORE applying the release 9 Service Pack.

It is highly recommended to download and apply the latest version of this PTF before applying the Service Pack. If the "Last Update" date has changed, then you need to use the new version of the PTF. If you have already applied the prerequisite PTFs listed in section 1, you do not need to re-apply them.

Refer to the cover letter for SH16054 ([SH16054692.txt](#)) for a list of changes.