
Upgrading to AIS Versions 4.8.2 or 5.0

This document discusses the process necessary to upgrade from previous AIS versions to version 4.8.2 or version 5.0 and later.

The procedure discussed in this documentation describes how to upgrade the solution definitions from your original version and deploy them into a newer version.

This documentation has the following topics:

- [AIS Solutions](#)
- [Upgrade Considerations](#)
- [Upgrading Attunity Studio](#)
- [Upgrading to Version 4.8.2 or 5.0 and later](#)

AIS Solutions

An AIS solution is a set of definitions that serves an integration purpose or solves an integration problem. In most cases, you create AIS solutions with Attunity Studio or by editing the AIS definitions with NAV_UTIL EDIT.

The upgrade process described in this documentation can be implemented no matter how the AIS solution was created. To avoid confusion, this document uses the term Solution (or Deployment Solution) to only to describe a set of AIS definitions that solve an integration problem.

The AIS solution upgrade process does not include changes required by the applications that use AIS. If the upgraded solution uses different TCP/IP port numbers or is dependant on other details that change when entered into a new environment, then the customer must make the necessary changes in the client application, (for example, by changing the connection string or JDBC).

The AIS solution upgrade process uses the new AIS utility called the AIS Deployer, which was released with AIS version 5.0. This utility supports AIS server versions 4.8.2 and later. If you do not have the AIS Deployer utility, you can download it from the Attunity Website (www.attunity.com). When you enter the site, click **Customer Login** at the top of the screen. In the Customer Login screen, enter your e-Resolve account information and then navigate though the Customer Zone to find the download for the AIS Deployer.

The update process creates a directory structure for your AIS solution. This directory structure can be deleted after completing the upgrade process, however saving it can provide significant advantages for the solution deployment.

Upgrade Considerations

There are three basic upgrade types for AIS solutions:

- **Replacement Upgrade:** This upgrade type is used when you replace an older version with the new version without deleting the old version. In this case only the new version is used in production. You must install the new or upgraded version in a different location than the old version, but do not remove the old version.
- **In-Place Upgrade:** This upgrade type is used when you install the new version on top of the old version files, which completely replaces the old version with the new. Use the backup if you need to return to the old version for anything.
- **Side-By-Side Upgrade:** This upgrade type installs the new version along side the old version. When you complete the upgrade, the solutions for both versions are active. Use this upgrade only if necessary, because the process for this upgrade is much more complex than the others.

This section discusses the considerations for selecting an upgrade type and the implications for each. The following table compares the considerations for each upgrade type:

Consideration	Replacement Upgrade	In-Place Upgrade	Side-By-Side Upgrade
Complexity	Low	Low	High
Risk	Low	Medium	Low
Provisioning Cost	Low	Low	High
Application Impact	Low	Low	Medium
Applicability	Almost always	Limited	Always

This section also describes some [Other Upgrade Considerations](#) for upgrading AIS.

Replacement Upgrade

This section describes the considerations for a Replacement Upgrade. These considerations are:

- [Replacement Upgrade Complexity](#)
- [Replacement Upgrade Risk](#)
- [Replacement Upgrade Provisioning Cost](#)
- [Replacement Upgrade Application Impact](#)
- [Replacement Upgrade Applicability](#)

Replacement Upgrade Complexity

A replacement upgrade is easy to implement and offers the best value. The new version is installed on each of the machines in your solution on a different disk location than the old version. Once the AIS definitions are upgraded correctly from the old version to the new version, the old version's servers are stopped and the new version's servers are started.

Since the same configuration is used, including host names and port numbers, there is nothing to change in the client applications, which continue to use the same AIS location.

The changes that are necessary for a replacement upgrade are minor. The most common changes are changing the location of the log files and startup scripts. In some cases, you must make changes to some of the environment compatibility settings.

Replacement Upgrade Risk

A replacement upgrade has a low risk, because the old version is not changed or removed. This version can be re-activated in a very short time to restore the old version in case issues are found with the new version. The risks in replacement upgrade, like any upgrade, are in the compatibility with the applications. These risks can be limited with proper testing in a design or staging environment before deploying the solution into the production environment.

Replacement Upgrade Provisioning Cost

A replacement upgrade has a very low provisioning cost. There is the disk space taken by the old version that is kept for safety. There is also a possible change in CPU, memory, network or storage requirements in the new version compared with the old one. While installation disk space almost always grows, other factors change in various ways as AIS is improved and new capabilities are added. The only way to gauge this impact is by evaluating the application in a development or staging environment prior to any production upgrade.

Replacement Upgrade Application Impact

A replacement upgrade has no application impact (other than a possible very short downtime when the servers are replaced). The application keeps accessing the same resources in the same location. No connection strings need to be updated and no other changes are needed in the way the application is using AIS.

This is true if no compatibility issues are detected in testing prior to deployment. If significant compatibility issues are detected, the side-by-side upgrade type should be used. Significant compatibility issues are ones that cannot be resolved with external parameter settings only.

Replacement Upgrade Applicability

A replacement upgrade is almost always applicable. The only case where it is not applicable is when there are significant compatibility issues between the old and the new versions.

In-Place Upgrade

This section describes the considerations for an in-place Upgrade. These considerations are:

- [In-Place Upgrade Complexity](#)
- [In-Place Upgrade Risk](#)
- [In-Place Upgrade Provisioning Cost](#)
- [In-Place Upgrade Application Impact](#)
- [In-Place Upgrade Applicability](#)

In-Place Upgrade Complexity

An in-place upgrade is the easiest to carry out, if it is possible to use this upgrade type. In this case, the upgraded version is installed on each of the machines in the solution in the same disk location of the old version. This should not be done unless you

backup the old version. The old servers are stopped before the upgrade process begins and are started after it is complete.

Since the same configuration is used, including host names and port numbers, there is nothing to change in the client applications which continue to use the same AIS location. The AIS configuration does not need to be modified to work with the new version because there are no changes to disk locations.

The necessary changes for an in-place upgrade are minimal. Most of the changes are made to a small number of compatibility settings.

In-Place Upgrade Risk

An in-place upgrade has a moderate amount of risk. This is because you must write over the old version. With proper backup, the risk can be minimal, especially if you are able to keep a copy of the old version in a separate location. The risks in an in-place upgrade, like any upgrade, are in the compatibility with the application. These risks can be limited with proper testing in a design or staging environment prior to production deployment.

In-Place Upgrade Provisioning Cost

An in-place upgrade has almost no provisioning cost. There is a possible change in CPU, memory, network, or storage requirements in the new version compared with the old one. While installation disk space almost always grows a little, other factors change in various ways as AIS is improved and as new capabilities are added. The only way to gauge this impact is by evaluating the application in a development or staging environment prior to any production upgrade.

In-Place Upgrade Application Impact

An in-place upgrade introduces no application impact, other than a possible very short downtime when the servers are restarted. The application keeps accessing the same resources in the same location. No connection strings need to be updated and no other changes in the way the application is uses AIS are necessary.

This is true if no compatibility issues are detected in testing prior to deployment. If significant compatibility issues are found, the side-by-side upgrade type should be used. Significant compatibility issues are ones that cannot be resolved with external parameter settings only.

In-Place Upgrade Applicability

An in-place upgrade is applicable (unless otherwise noted) when the old and the new versions are minor versions of the same release. The further apart the versions, the higher the chances are that they would be incompatible. An in-place upgrade is not applicable when there are significant compatibility issues between the old and the new versions.

Side-By-Side Upgrade

This section describes the considerations for a side-by-side Upgrade. These considerations are:

- [Side-By-Side Upgrade Complexity](#)
- [Side-By-Side Upgrade Risk](#)
- [Side-By-Side Upgrade Provisioning Cost](#)
- [Side-By-Side Upgrade Application Impact](#)

- [Side-By-Side Upgrade Applicability](#)

Side-By-Side Upgrade Complexity

A side-by-side upgrade is the most complex upgrade type, however sometimes it is the only applicable way to upgrade. In this upgrade type, the old version is saved and is running while the new version is installed. Like the replacement upgrade, the new version is installed on each of the machines in the solution on a different disk location than the old version. The AIS definitions are upgraded from the old version to the new version with new host names, IP addresses and disk locations. Once the new definitions are set, the new version's servers are started.

Since different configuration is used, the client applications must be modified to accommodate the change. The client application changes that are needed in side-by-side upgrade are mostly changes in the connection strings used (typically because of the change to the port numbers).

However, if there compatibility issues or sometimes for other reasons, the client applications can be moved incrementally from the old version to the new version over time.

Side-By-Side Upgrade Risk

A side-by-side upgrade has relatively low risk because the old version is running and available. The risks in a side-by-side upgrade are related to the provisioning cost (see [Side-By-Side Upgrade Provisioning Cost](#)) because there are more servers running and the system must be ready for this (provision them) or it will fail under stress.

Side-By-Side Upgrade Provisioning Cost

A side-by-side upgrade introduces provisioning cost due to the duplication of servers and resources consumed by the parallel installation. The only way to gauge this impact is by evaluating the application using this configuration in a development or staging environment before upgrading to the production environment.

Side-By-Side Upgrade Application Impact

In a side-by-side upgrade, the clients are moved in phases from the old to the new servers. This introduces complexity on the client side (or possibly that complexity may be a given) since some of the clients use the old version and some use the new. The consideration of how to move from the old to the new are domain specific and are not described here.

Side-By-Side Upgrade Applicability

A side-by-side upgrade is always applicable but is also more complex so the simpler approaches should be used when possible.

Other Upgrade Considerations

This section describes additional considerations that you must be aware of when upgrading AIS. These considerations are:

- [AIS Stored Procedures and Views](#)
- [Scripts and System Settings](#)

AIS Stored Procedures and Views

An AIS solution may contain AIS stored procedures and views. These are defined either in the `SYS` data source or in the VDB (or DSM - Virtual Database) data source types, using the following commands:

```
create procedure XxxPrc as {some SELECT with parameters}
create view xxxView as {some SELECT without parameters}
```

If an AIS solution contains stored procedures and views, they need to be recreated after each upgrade. The recommended way for upgrading stored procedures and views is to maintain an SQL script with the appropriate `CREATE` statements. When creating this script note that the script shows a start with a `DROP` statement for all procedures and views.

Procedures and views that depend on other definitions must be defined after those definitions are created. For example, if procedure `X` uses view `Y` then view `Y` must be created before procedure `X` is created.

Scripts and System Settings

Any customization made to AIS scripts must be verified after an upgrade to make sure that the upgraded environment uses the correct definitions (for example, startup scripts may contain a reference to the product installation directory after the upgrade, all references should be to the new version). This is also true for system settings.

Upgrading Attunity Studio

When you upgrade from version 4.8 to version 5.0 you may need both Versions 4.8 and 5.0 servers (especially if you have multiple environments such as development, staging and production). Therefore, you should install Version 5.0 in parallel to the older version. This will ensure that you can still access and manage the old servers with the old version of Attunity Studio while accessing and managing the new servers with the Attunity Studio Version 5.0.

Notes:

- When you install a new version of Attunity Studio, back up your workspace folder before installing the Attunity Studio upgrade to ensure that data is not lost and that you have access to the machines and solutions you saved in the older version.
 - If you want to overwrite your older version, you must uninstall it before you install the new version. However, make sure to back up the workspace before you uninstall the older version.
 - The installation process does not overwrite an older major version (for example, if you are upgrading from version 4.x to 5.x. When you install a newer version into a separate directory, as recommended, you will not be able to uninstall the old version using the uninstall program.
 - If you are installing Attunity Studio on a Windows XP machine, you cannot specify a logical drive as the Destination folder for the installation.
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To upgrade to a newer version of Attunity Studio

1. Back up the workspace folder from the old version of Attunity Studio in a safe place.

2. Run the self-extracting executable installation file, either using the Run option in the Windows Start menu or through Windows Explorer.

If you did not uninstall the older version, then install the newer version of Attunity Studio in a different folder than the older version. When prompted in the wizard, make sure to give the new Attunity Studio version a different name to be sure that both versions are available in the Windows Programs menu and that there are two short cuts.

For example, by default Attunity Studio is installed in `Program Files\Attunity\Studio`. You should change the default installation so that the new version is installed in `Program Files\Attunity\StudioNNN`. In this case `NNN` is a number that indicates the version of Attunity Studio you are installing.

3. Browse to the `Studio` root folder and find the folder called `configuration`. By default this folder is found in the following path.

```
C:\Program Files\Attunity\Studio
```

Delete the following folders:

- `.settings`
- `org.eclipse.core.runtime`
- `org.eclipse.osgi`
- `org.eclipse.update`

These folders are re-created when you run Attunity Studio.

4. Copy the workspace folder for the older version into the newer version 5.0 folder. This will make the machines and solutions defined in Version 4.8 available to Attunity Studio Version 5.0.

In some cases solutions and other files from older major versions (for example, if you are upgrading from version 4.x to 5.x), may not be compatible with the new version. In this case, you may get errors for some of the items when you try to view them in Attunity Studio. You can delete these items from Attunity Studio, and the compatible items will still be available.

After completing the above procedure, you can run either version of Attunity Studio and have all the solutions and machines you defined available to you. You must use the version of Attunity Studio with the corresponding version of the AIS Server. For example you must use Attunity Studio 4.8 with AIS Server 4.8.

Upgrading to Version 4.8.2 or 5.0 and later

This section describes the process for upgrading from an early version (version 3.4 through 4.6) to version 4.8.2 or 5.0 and later.

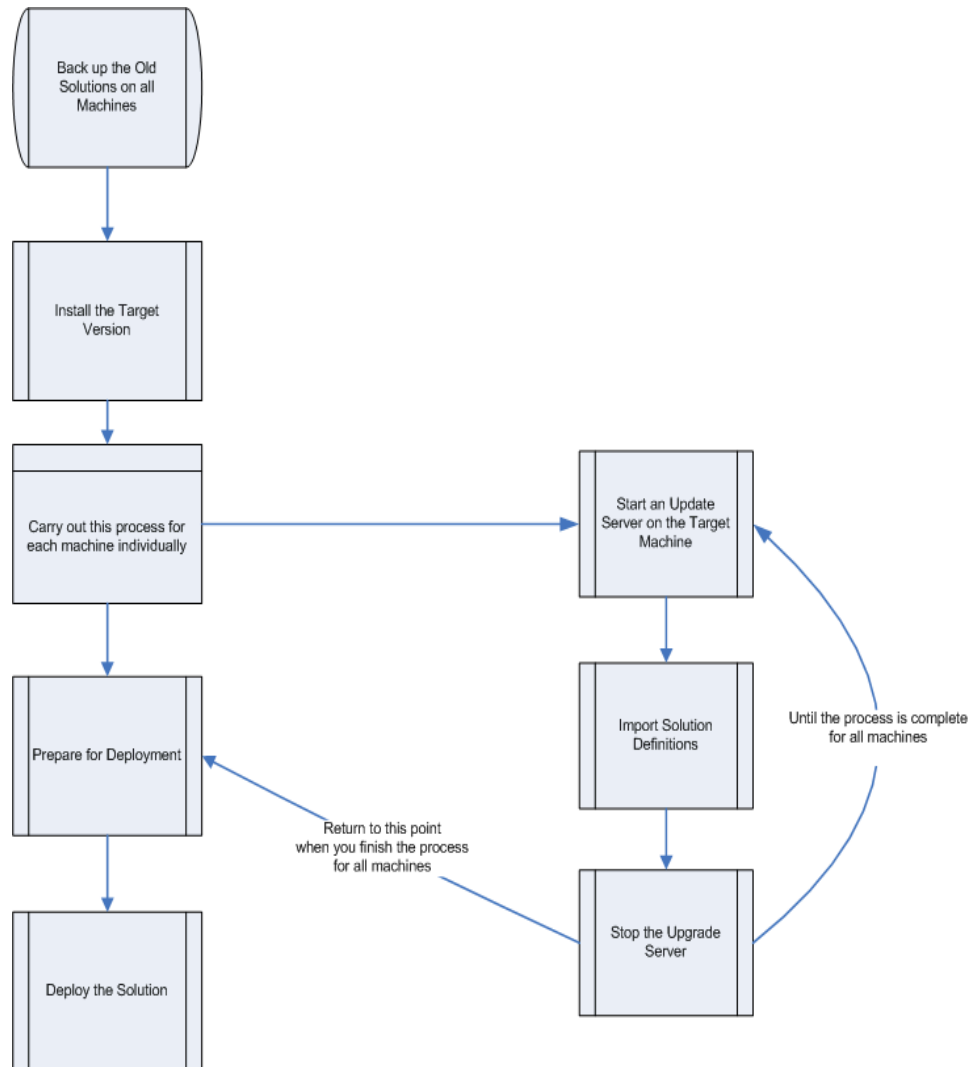
This process has the following steps:

1. [Back Up the Old Solutions](#)
2. [Install the Target Version](#)
3. [Start an Upgrade Server on the Target Version to Read the Old Definitions](#)
4. [Import Definitions into a Solution with the AIS Deployer](#)
5. [Stop the Upgrade Server](#)
6. [Prepare for Deployment](#)

7. Deploy the Upgraded Solution

The following diagram shows the workflow for the upgrade process:

Figure 1–1 Upgrade Workflow



Back Up the Old Solutions

Back up all of your solutions that were defined in the older versions. This does not change the original data but provides a safety measure in case something happens to the original definitions. If you accidentally erase the files instead of moving them, and you did not back them up, your solution’s definitions are lost. When you back up the files, you can go back to use them again, although you may have to restart the process.

Notes:

- You must back up the definitions on each machine used in the solution.
 - The upgrade process described in this document does not discuss the applications that you use. If you are using applications with your solution, you must make sure that you change their environment parameters to work with the new version.
 - You should back up your solutions, no matter what upgrade type you use. For more information on upgrade type considerations, see [Upgrade Considerations](#).
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Install the Target Version

The next step is to install the AIS target version (version 4.8.2 or later) on all of the machines in your solution.

The target version must be installed in a separate folder or directory than the original (early) version. Installing the target version on the same folder or directory as the original version may cause the upgrade to fail. Make sure to install the AIS target version on every machine used in your solution.

When you install the target AIS version, *do not start the daemon*. You start the daemon later in the process. This allows you to select the ports that you need to use for the upgrade (for example, if the target version replaces the original using the same ports, use the same ports in the installation process).

For more information, see the installation guide for the platform you are using.

Note:

Upgrade type special considerations:

- In-place upgrade: In this case, you can install the upgraded version in the same place as the old because you will totally replace the old version. Make sure you have a backup of the old version before you begin this process. For more information, see [In-Place Upgrade](#).
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Start an Upgrade Server on the Target Version to Read the Old Definitions

Note:

Carry out this procedure, and then the following procedures for one machine at a time:

- [Import Definitions into a Solution with the AIS Deployer](#)
- [Stop the Upgrade Server](#)

After you complete all of these procedures for one machine, repeat them for each machine in your solution one at a time until all of the machines are set up. Then continue with the remaining procedures.

An upgrade server is an AIS server that is started in order to upgrade AIS definitions. An upgrade server is started interactively, without a daemon, and is terminated when the old definitions are imported into the AIS Deployer's deployment solution. The upgrade server runs without a daemon and, therefore, does not carry out the normal authentication checks. You must stop the upgrade server when the definition upgrade is complete.

In this step, you will do the following:

- Define NAVDEF to use the definitions from your early version DEF folder or directory, where your original AIS definitions.
- Set NAVBIND to be ACADMIN
- Run the command `NAV_UTIL SVC :<port>` to start a stand-alone AIS server that gives the AIS Deployer access to the original definitions. You can specify any free port. Remember to specify the same port when you use the AIS Deployer.
- With the AIS Deployer, import the original definitions into the AIS Deployer upgrade solution directory on a Windows machine.
- Stop the upgrade server and log out to undo the symbol definitions. For MVS, you must also edit some files. See [Mainframe](#).

The following table shows the procedure for implementing this step for each platform. The system prompt for each set of commands is in **bold**.

Platform	Description
Windows	<p>To read the definitions files from the early version</p> <ol style="list-style-type: none"> 1. In the Windows Start menu, select Programs, then select Attunity, and click Command Line Console. The AIS command console opens. 2. Enter the following in the command console at the prompt: <pre> \$ set NAVDEF=<path to DEF folder for the early version> \$ set NAVBIND=ACADMIN \$ nav_util svc :<upgrade port> </pre> <p>For example, if the AIS Server root folder is C:\Server3400 and the upgrade port number is 8330, you would enter the following:</p> <pre> \$ set NAVDEF=C:\Server3400\Def \$ set NAVBIND=ACADMIN \$ nav_util svc :8330 </pre>
UNIX	<p>Log in to an account where you can run NAV_UTIL and enter the following at the \$ prompt:</p> <pre> \$ set NAVDEF=<path to def directory for the early version> \$ set NAVBIND=ACADMIN \$ nav_util svc :<upgrade port> </pre> <p>For example, if the AIS Server root directory is /usr/ais3420 and the upgrade port is 8330, you would enter the following:</p> <pre> \$ set NAVDEF=/usr/ais3420/def \$ set NAVBIND=ACADMIN \$ nav_util svc :8330 </pre>

Platform	Description
HP OpenVMS	<p>To read the definitions files from the early version</p> <p>Log in to an account where you can run nav_login and enter the following and enter the following at the DCL prompt:</p> <pre>\$ define NAVDEF <path to the def directory for the early version> \$ define NAVBIND ACADMIN \$ nav_util svc :<upgrade port></pre> <p>For example, if the AIS Server root directory is DKA300:[APPS.AIS3420] and the upgrade port is 8330, you would enter the following:</p> <pre>\$ define NAVDEF DKA300:[APPS.AIS3420.DEF] \$ define NAVBIND ACADMIN \$ nav_util svc :8330</pre>
HP NonStop	<p>To read the definitions files from the early version</p> <p>Log in to an account where you can run nav_util and enter the following at the TACL prompt:</p> <pre>#> run navlogin #> define NAVDEF <path to the def directory for the early version> #> define NAVBIND ACADMIN #> define svc :<upgrade port></pre> <p>For example, if the AIS Server root directory is \$D0118.NAV3420 and the upgrade port is 8330, you would enter the following:</p> <pre>#> run navlogin #> param NAVDEF \$D0118.NAV3420 #> param NAVBIND ACADMIN #> nav_util svc :8330</pre>
AS400	<p>To read the definitions files from the early version</p> <p>Note: This example assumes that the AIS Server root directory for the old version is AS3240, the root directory for the new version is AIS5000, and the upgrade port is 8330.</p> <ol style="list-style-type: none"> Log in to an account where you can run nav_util. Type WRKENVVAR and then press Enter, to go to the work environment. Type 1 and then NAVROOT and press Enter. Add the environment value for the upgrade version. At the InitialValue prompt, type '/AIS5000' Go to the NAVDEF directory: Type 1 and then NAVDEF and press Enter. Change the environment value to the old version: At the InitialValue prompt, type 'AIS3420/DEF and press Enter. Press F3 and then change the library file for the upgrade version: Type ADDLIB AIS5000 and press Enter Run the server as a job: <pre>#> SBMJOB CMD(CALL PGM (NAVUTIL) PARM('-B' ADADMIN SVC ':8330')) JOB(AISUPGRD)</pre>

Platform	Description
Mainframe	<p>This procedure describes how to carry out this step on a mainframe (z/OS or OS/390). This example assumes that the High Level qualifier is ATTUNITY, the root folder for the AIS Server for version 4.8.2 is NR4820, the root folder for the early version of the AIS Server is NR3420, and the upgrade port is 8330.</p> <ol style="list-style-type: none"> Go to the GBLPARAMS file for version 4.8.2. ATTUNITY.NR48200.DEF.GBLPARMS Type <code>e</code> to edit the file and add the following two parameters to the file: NAVDEF=ATTUNITY.NR3420 NAVBIND=ACADMIN Run <code>navcmd</code>. In the Name column, find NAVCMD and type <code>ex</code>. Press Enter to open NAV_UTIL. In the NAV_UTIL screen type <code>SVC :8330</code> and press Enter.

Import Definitions into a Solution with the AIS Deployer

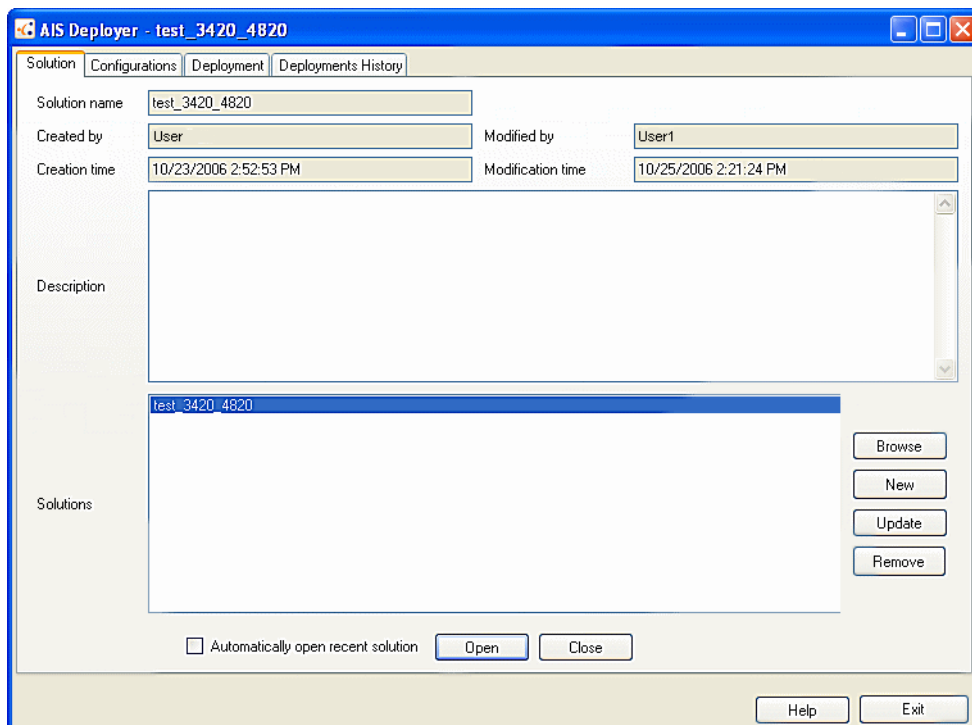
In this step you import the definitions for your upgrade solution using the AIS Deployer.

To prepare definitions

- Start the AIS Deployer: from the Windows **Start** menu, select **Programs** then **Attunity, AIS Deployer**, and then click **AISDeployer**.
- To create a solution with the AIS Deployer, click the **Solution** tab.

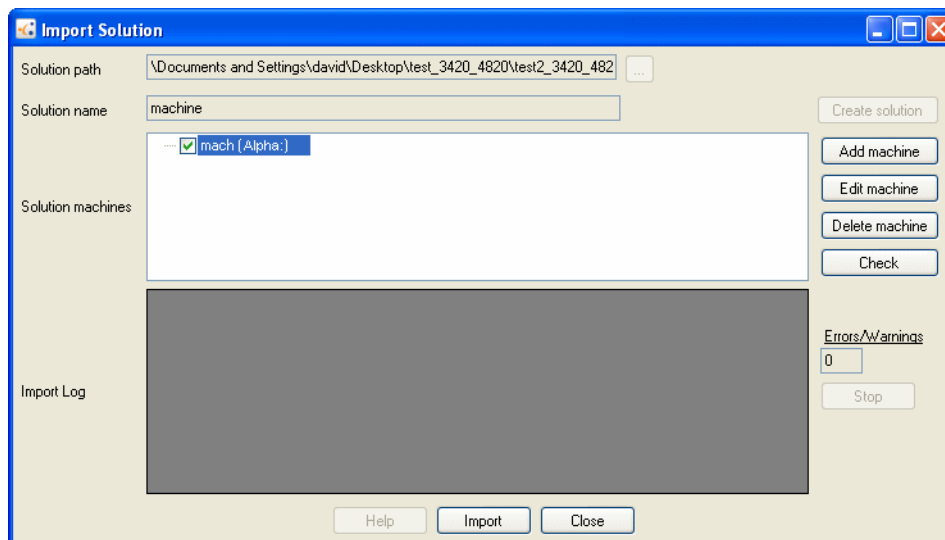
The following shows the **Solution** tab.

Figure 1–2 Configuration Tab



3. Click **New** to open the Import Solutions dialog box. In this dialog box, you enter a name for the solution and define the path to the folder where you save your solution's definitions.

Figure 1–3 Import Solution



4. Enter the path to the folder where or click the **Browse** button to the right of the field to automatically select the path to the folder where you will save your new solution.

Note: You must use an empty folder.

5. Click **Add Machine** to add the machine for the upgrade server you are setting up to your solution. Enter the information about the machine in the Add Machine dialog box. If any machines were added earlier, make sure to clear the check boxes for those machines so that only the check box for the current machine is selected.
6. Enter a host name for the import.
7. Enter a name for the import.
8. Click **OK** to return to the Import Solution window.
9. Click **Import**, to import the definitions from the old server.

Stop the Upgrade Server

In this step you stop the upgrade server after the old machine definitions are captured in the upgrade solution. At this point, the upgrade server is no longer necessary and must be stopped. This server does not carry out the authentication and authorization checks usually executed by the daemon.

The following table describes how to stop the server for each platform.

Platform	Description
Windows	<p>To read stop the upgrade server:</p> <p>Press Ctrl + C to stop the server after the definitions are read by the AIS Deployer.</p>

Platform	Description
UNIX	<p>To stop the upgrade server:</p> <p>Press Ctrl + C to stop the stop the server after the definitions are read by the AIS Deployer.</p>
HP OpenVMS	<p>To stop the upgrade server:</p> <p>Press Ctrl + Y to stop the server after the definitions are read by the AIS Deployer.</p>
HP NonStop	<p>To stop the upgrade server:</p> <p>Press Ctrl + C and then type STOP at the TACL prompt to stop the stop the server.</p>
AS400	<p>To stop the upgrade server:</p> <p>Enter the following command:</p> <pre>CALL PGM(IRPCD) PARM('-L' ' :8330' SHUTDOWN)</pre> <p>Where 8330 is the special port on which the upgrade server was started.</p>
Mainframe	<p>This procedure describes stop the procedure on a mainframe (z/OS or OS/390). This example assumes that the High Level qualifier is ATTUNITY, the root folder for the AIS Server for version 4.8.2 is NR4820,the root folder for the early version of the AIS Server is NR3420, and the upgrade port is 8330.</p> <ol style="list-style-type: none"> 1. Stop the task running the upgrade server. 2. Go to the GBLPARAMS file for version 4.8.2. <pre>ATTUNITY.NR48200.DEF.GBLPARMS</pre> 3. Type e to edit the file and delete the two parameters that you added to the file: <pre>NAVDEF=ATTUNITY.NR3420 NAVIND=ACADMIN</pre>

Note: After this step, if you have any additional machines to set up, return to [Import Definitions into a Solution with the AIS Deployer](#) and carry out the procedures for the next machine.

Prepare for Deployment

In this step, all of your AIS solution definitions that are already in the AIS upgrade solution on Windows may need to be adjusted to the deployment target environment before the definitions can be deployed.

The type and amount of adjustments that you need to make depend on the upgrade type that you selected.

- For an in-place upgrade, no adjustment is needed. All the definitions can be used as-is.
- For a replacement upgrade, you need to adjust only the directory paths that depend on the installation directory. The following table shows an example:

Once you prepare the solution, you can [Deploy the Upgraded Solution](#).

Another possible adjustment is the daemon workspace startup script. Directory paths in AIS definitions that are not related to the product root installation directory do not need to be modified.

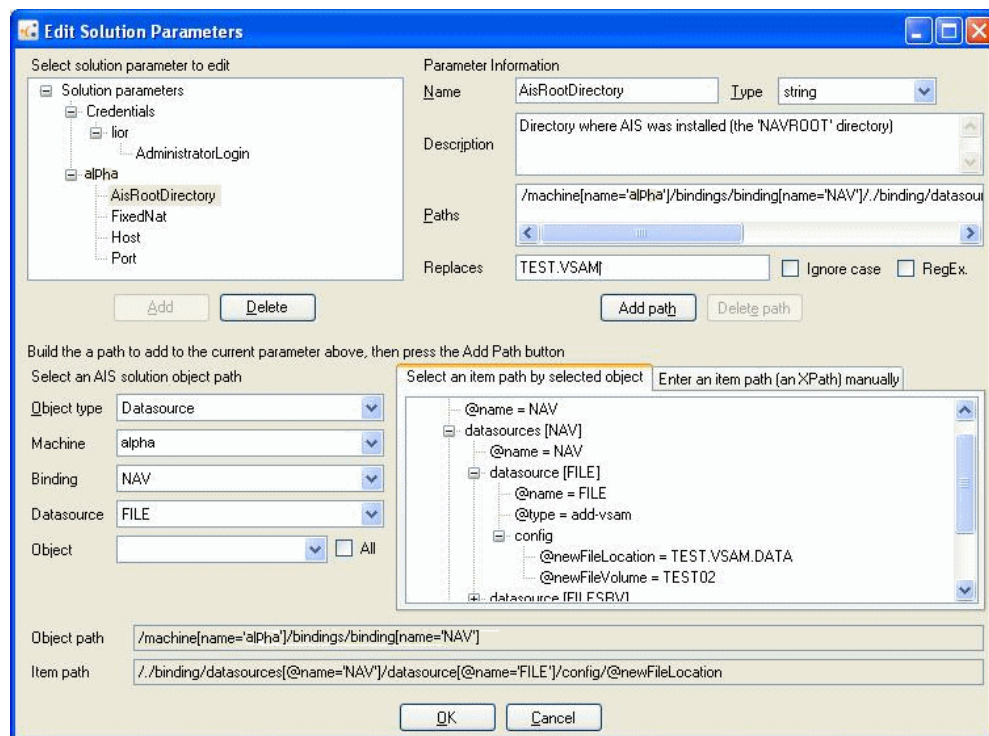
- For a side-by-side upgrade, you must adjust directory paths as well as port numbers and possibly other areas. For this reason, a side-by-side upgrade is more complex than the other upgrade types.

When this step is complete, all areas of the AIS solution that change between the old version and the new version are defined as solution parameters in the AIS Deployer with the appropriate values for each environment.

To prepare the paths for the upgrade deployment

1. In the AIS Deployer, click the **Configurations** tab.
2. Click **Edit Parameters** to open the Edit Solution Parameters window.

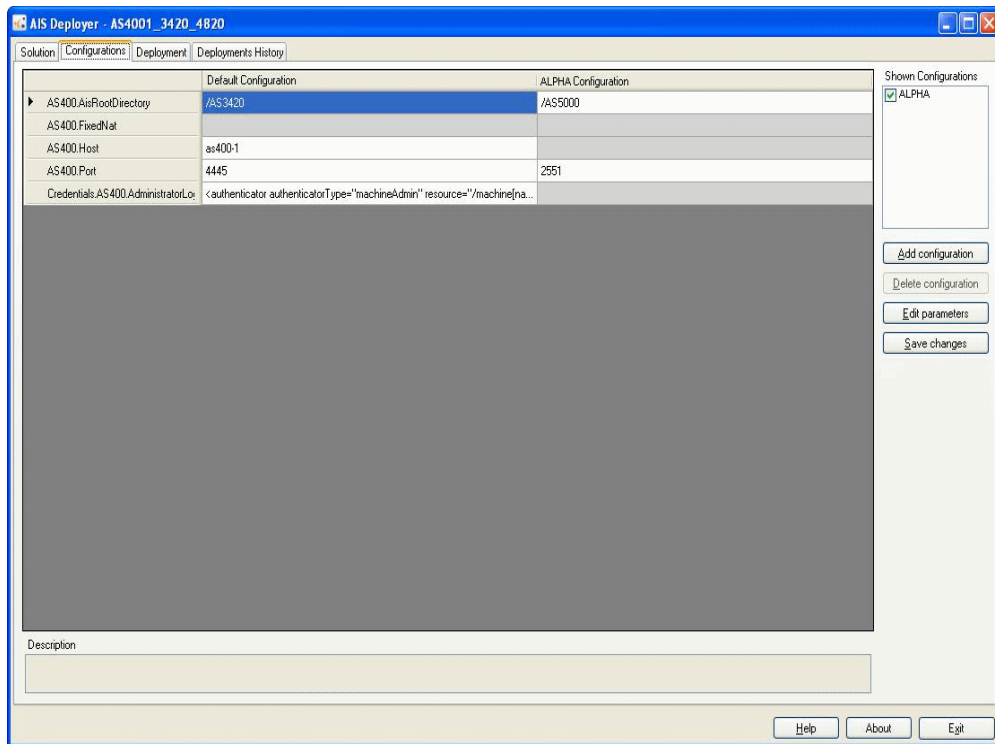
Figure 1–4 Edit Solution Parameters



3. In the **Select solution parameter to edit** field, select the machine for your solution from the tree.
4. Select the AIS root directory for in the upgrade deployment.
The paths for each of the objects where you may have physical files located appear in the **Paths** field.
5. Type the part of the path that you want to change in the **Replaces** field. This is the part of the path is different on the original machine. For example, if the path on the original machine is `d:\development\solution files`, and you want the solution files to be in `p:/prod` directory on a UNIX machine, type `d:\development` in the **Replaces** field.

Click **OK**. The window closes and you return to the **Configurations** tab.

Figure 1–5 Configurations Tab



6. In the first column, find the name of the root folder or directory you added in step 4. Note that in the Default Configuration, you will see the path you entered in the **Replaces** field in step 5.
7. In the columns for the additional configurations, enter the part of the path that will replace the section entered in the default configuration. For example, enter `p:/prod` to replace `d:\development`. to the folder or directory with the solution definitions. The upgraded solution files are deployed to the paths that are entered for each machine in place of the path that is entered for the default configuration. These are the paths that you selected in the **Edit Solution Parameters** dialog box.
8. Click **OK** to accept the new configurations. You are now ready to carry out the upgrade deployment.

Note:

Upgrade type special considerations:

- In-place upgrade: This step is not necessary.
 - Side-By-Side upgrade: You must make sure to add the path for all objects, including files or directories, ports, and machines. This can all be done in the deployer using the procedure in this section.
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Deploy the Upgraded Solution

In this step, you use the AIS Deployer to deploy the solution into the target environment. When you deploy a solution, you add the definitions to the server machines.

To deploy a solution

- In the **Deployment** tab, click **Start**. The solution is deployed to the correct machines. You can view the progress in the Deployment Progress section of this tab.

Note: If the solution uses QP stored procedures and views, do the following:

1. In your solution folder, on the machine where you are using the AIS Deployer, find the following folder:
`deployments\<name of solution>\scripts`
 2. Find the stored procedure you need to use in this folder and copy it (or send by FTP) to the machine where you want to deploy the solution. If you are using a non-English language solution, you must use an FTP that transfers the non-English characters correctly.
 3. Run it on the AIS 4.8.2 environment using `NAV_UTIL EXECUTE NEW VALUE -b import sys.`
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After you deploy the solution, move all the old version machines off-line and run the solution with the upgraded version machines to test it.

