AS300 Upgrade Tasks Summary—IMPAX 6.2 or later to IMPAX 6.5.1

Running the Cross-Cluster Dictation Interlock tool

1. On the 6.5.1 Application Server where the Relay service is running, open a command prompt.
2. Type the following command:

   net start StudyStatusRelayService
3. Exit the command prompt.

Taking a system snapshot

1. At a command prompt, change to the **C:\mvf-mig6\bin** directory.
2. Type

   migration_inventory -d *database_name* -U *database_user_name* -P *database_password* -s -D *database_server_host_name*
3. To create a report file with this information, type

   mig_reporter -t system_inventory_tool

Emptying Connectivity Manager queues

1. In Connectivity Manager, open Service Tools and click **Queue Manager**.
2. Select any device with either pending or error transactions and empty the queues.
3. Retry recent messages and delete older messages since newer transactions may have updated patient, study, and report data after these transactions entered an error state.

Stopping Connectivity Manager interfaces

1. In the Connectivity Manager, open **Service Tools**.
2. To resort and group all device classes, click **Class**.
3. Scroll down to view CMSI and HL7 class devices.
4. Note which **HL7 In** and **CMSI In** interfaces are started. These interfaces must be restarted after the IMPAX upgrade.
5. Select the checkbox beside each of the started inbound interfaces.
6. Click **Stop**.

Stopping Connectivity Manager queues

1. In the Connectivity Manager, open **Service Tools** and click **Queue Manager**.
2. In the Queue List table, select the checkbox beside each queue belonging to a device with a DM Out or impax_report_server component.
3. Click **Stop**.

Stopping data transmission to IMPAX 6.2 or later

1. Open the Windows Administrative Tools and select **Services**.
2. Right-click the DICOM Service Class Provider service and select **Properties**.
3. To change the Service status, click **Stop**.
4. From the Startup type list, select **Disabled**.
5. To close the Properties dialog, click **OK**.
6. Launch the 6.2 or later Administration Tools and log in as user **service**.
7. On the Daily tab, select **Job Manager**. 
8. Monitor each **Transmit** queue and wait for all outgoing jobs to finish.
9. Select each Transmit queue and click **Halt Queue**. 
10. To confirm that you want to halt the queue, click **Yes**.

Verifying unverified studies

1. In the 6.2 or later Administration Tools, on the Daily tab, click **Study Manager**. 
2. From the location list, select **Failed Verification**.
3. Set other search criteria to **Any** value.
4. Click **Refresh**. 
5. In the search results, select all studies.
6. To fix up the studies that have failed HIS verification, click **Fix All Studies**. 
7. Review the results presented in the dialog.

Storing unarchived studies

1. In the 6.2 or later Administration Tools, on the Daily tab, click **Study Manager**. 
2. From the location list, select **Cached** (or another value that will return the unarchived studies).
3. Set other search criteria to **Any** value (or set to appropriate values).
4. Click **Refresh**. 
5. In the search results, select the studies to archive.
6. Click **Store to Archive**. 
7. To update the status of the selected studies, click **Refresh**.
8. Ensure that all studies are archived.

Closing and mirroring archive volumes

1. In the 6.2 or later Administration Tools, on the Setup tab, select **Archive Manager**.
2. Switch to the **Volumes** tab.
3. Select a logical volume and click **Close Logical Volume**.
4. If the system has a jukebox archive, you may have to wait for the sync job to finish.

   If the system has a non-jukebox archive, to ensure that a backup of the data exist, perform a mirror procedure manually.
5. On the Daily tab, select **Job Manager**.
6. Check the Delivery Date Time column for jobs that are not scheduled to run until later. If any exist, schedule these jobs to complete now, using the **Set Delivery Date and Time** option at the top.

Emptying all queues

1. In the 6.2 or later Administration Tools, on the Daily tab, select **Job Manager**.
2. If an archive job remains in any of the queues, select the job and click **Expedite Selected Job(s)**.
3. If any other job remains in any of the queues, select the job and click **Delete selected job(s)**.

Halting all queues

1. In the Administration Tools, on the Daily tab, select **Job Manager**.
2. In the queue list, select **All Queues**.
3. Click **Halt Queue**.
4. To confirm that you want to halt the queues, click **Yes**.

Stopping antivirus software

1. On a Windows server to upgrade, launch the antivirus software.
2. Halt the scan operation according to the vendor's instructions.

Clearing the archive Logical Volume

1. In the 6.2 or later Administration Tools, on the Setup tab, select **Archive Manager**.
2. Select the Logical Volume and click **Close**.
3. At the Close Volume prompt, click **Yes**.
4. Ensure that the Archive queue is halted.
5. Delete the Logical Volume folder and files from the drive.

Deleting old log files

1. On the server to be upgraded, open a command prompt.
2. Change to the **C:\mvf\bin** directory.
3. Run **stopall.bat**.
4. For future reference, copy all files in C:\mvf\data\logs\ to a backup location.
5. Delete all the log files from C:\mvf\data\logs.

Recording the names of previously installed IMPAX AS300 software packages

1. On the IMPAX 6.4 or later server, open Control Panel.
2. Select **Add or Remove Programs**.
3. Select **AGFA IMPAX AS300** and click **Change**.
4. After the installer launches, click **Modify**.
5. Click **Next**.
6. Make note of the installed packages.

To record the names of previously installed IMPAX 6.2 or 6.3 AS300 software packages

1. On the IMPAX 6.2 or 6.3 Windows server to upgrade, select **Start** > **Run**.
2. In the Open field, type **regedit** and click **OK**.
3. In the Registry Editor, select **HKEY_LOCAL_MACHINE\SOFTWARE\Mitra Imaging Inc.** and **HKEY_LOCAL_MACHINE\SOFTWARE\Mitra** and make note of the installed packages.

Upgrading to Windows 2008

Microsoft recommends doing a clean installation of operating systems whenever possible.

For information regarding migration or upgrade to Windows 2008:

http://technet.microsoft.com/en-us/library/cc755199(WS.10).aspx

Also, consult the hardware vendor's website for information about drivers.

Configuring Windows 2008

After upgrading, configure Windows 2008 as follows:

- Activate Windows
- Set the Start menu and Control Panel to Classic mode
- Change the page file setting, so the server does not run out of virtual memory
- Support security certificate validation
- Partition disks appropriately for database, volumes, logs, cache, and ghost
- Add the appropriate roles

Details on these configurations are provided in the *IMPAX 6.5.1 AS300 Installation and Configuration Guide*.

Upgrading Windows Server 2008 to Windows Server 2008 SP2

1. Connect to the network or computer where you want to create the distribution folder.
2. In the shared folder, create a distribution folder for the service pack.
3. Copy Windows6.0-KB948465-*XXX*.exe into the distribution folder.
4. To install the service pack from a remote shared distribution folder, run **Windows6.0-KB948465-*XXX*.exe**.
5. Follow the instructions in the Setup Wizard.
6. When the installation process is complete, restart the computer.

Enabling Automatic Updates in Windows 2008

1. Open Control Panel.
2. Select **Windows Update**.
3. Click **Change Settings**.
4. Select **Download updates, but let me choose whether to install them**.
5. To apply the changes, click **OK**.
6. If you see the message `To check for updates, you must first install an update for Windows Update`, click **Install now**.
7. To verify that the Automatic Updates service is started, at a command prompt, type **net start**.
8. Verify that Automatic Updates is included in the list of services.

Enabling remote access to Knowledge Bases

1. In Internet Explorer, select **Tools** > **Internet Options**.
2. In the Internet Options dialog, switch to the **Security** tab.
3. Select **Trusted sites**.
4. Click **Sites**.
5. In the Trusted sites dialog, if you are connecting to the Knowledge Base using http:// rather than https://, clear the **Require server verification (https:) for all sites in this zone** checkbox.
6. In the Add this website to the zone field, type or paste the name of the Application Server that the Knowledge Bases are installed on (**https://*server_name***).
7. Click **Add**.
8. Click **Close**.
9. Click **Custom Level**. In the Security Settings dialog, under Scripting, ensure that **Active scripting** is enabled. Click **OK**.
10. Click **OK**.

Enabling local access to Knowledge Bases

1. In Internet Explorer, select **Tools** > **Internet Options**.
2. In the Internet Options dialog, switch to the **Advanced** tab.
3. Under Security, select the **Allow active content from CDs to run on My Computer** and the **Allow active content to run in files on My Computer** checkboxes. Click **OK**.
4. For the changes to take effect, close and restart Internet Explorer.

Manually backing up the SQL 2000 database

1. Open the SQL Server Enterprise Manager.
2. In the Explorer window of the Enterprise Manager, expand **Console Root** > **Microsoft SQL Servers** > **SQL Server Group** > ***server*** > **Databases** > ***database***
3. Select **Action** > **All Tasks** > **Backup database**.
4. Configure the General and Options tabs according to your preferences for items such as the type of backup, the destination, and whether to overwrite or append to the media.
5. To start the backup, click **OK**.
6. Exit the SQL Server Enterprise Manager.

Upgrading SQL Server 2000 to SQL Server 2008

1. On the server you are upgrading, ensure that the Distributed Transaction Coordinator service is running:
    a. Open the Windows Administrative Tools and select **Services**.
    b. Select the **Distributed Transaction Coordination** service. If this service is not started, click **Start Service**.
2. Ensure that the SQLSERVERAGENT service is started.
3. To launch the installer, follow the instructions supplied with the SQL Server 2008 software.
4. When prompted, click **OK** and follow the on-screen instructions to install the Microsoft .NET Framework and updated Windows Installer. You might be asked to restart the server.
5. In the SQL Server Installation Center, select **Installation**, then select **Upgrade from SQL Server 2000 or SQL Server 2005**.

6. On the Setup Support Rules screen, ensure that all operations have completed successfully. Click **OK**.
7. On the next screen, enter the product key. Click **Next**.
8. When prompted, accept the Microsoft Software License Terms. Click **Next**.
9. On the Setup Support Files screen, click **Install**. After the support files are installed, click **Next**.
10. On the Setup Support Rules screen, ensure that all operations have completed successfully. Click **Next**.
11. In the Select Instance screen, check that **Instance to Upgrade** has been set to **MSSQLSERVER**. Click **Next**.
12. On the Select Features screen, click **Next**.
13. On the Instance Configuration screen, click **Next**.
14. Verify that the disk space requirements have been met. Click **Next**.
15. On the Server Configuration screen, click **Next**.
16. On the Full-text Upgrade screen, keep the default and click **Next**.
17. On the Error and Usage Reporting screen, click **Next**.
18. On the Upgrade Rules screen, check that no errors appear. Click **Next**.
19. On the Ready to Upgrade screen, click **Upgrade**.
20. Verify that the upgrade was successful, then click **Finish** and **Close**.
21. Restart the computer.

Stopping SQL Server 2008 services

1. Open the Windows Administrative Tools.
2. Select **Services**.
3. Select each of the following services in turn and click **Stop Service**, if needed:
   a. **SQL Server Full Text Search**
   b. **SQL Server Full Text Filter Daemon Launcher**
   c. **SQL Server Browser**
   d. **SQL Server Integration Services 10.0**
4. Close the Services window.

Upgrading SQL Server 2008 to SQL Server 2008 SP1

1. Launch the SP1 installer.
2. If you see a security warning, click **Run**.
3. On the Welcome screen, click **Next**.
4. On the License Terms screen, select **I accept the agreement**. Click **Next**.
5. On the Feature Selection screen, accept the default selections. Click **Next**.
6. On the Check Files in Use screen, wait while the processes are identified. Then, click **Next**, even if some locked files are found.
7. On the Ready to Update screen, click **Update**.
8. On the Update Progress screen, wait until the components are upgraded or installed, then click **Next**.
9. If the Computer Reboot Required prompt appears, click **OK**.
10. On the Installation Complete screen, click **Close**.
11. Restart the computer.

Upgrading the IMPAX SQL Server database schema to IMPAX 6.5.1

1. Open a command prompt.
2. Change to the **C:\mvf-mig6\bin** directory.
3. If upgrading from IMPAX 6.5, type

   database-upgrade-script.bat

   If upgrading from IMPAX 6.2, 6.3, or 6.4, type

   database-upgrade-script.bat -v {62 | 63 | 64}
4. At the prompt

   `Ready to upgrade database to version 6.5.1. Do you want to proceed [y,n]?`

   Verify that the *version_number* listed is correct—for example, that it says `62` if upgrading from IMPAX 6.2. If so, press **Enter** to continue.

   If the version is incorrect, type **q** and press **Enter**, then repeat the previous step with the correct version number specified.
5. If prompted for a report source, in most cases, type **UNKNOWN**.

   If using a queryable RIS and multiple Connectivity Managers, type the value used for the Connectivity Manager **issuer_of_*** and **mcf_bls_report_workflow domain_id** fields.
6. Respond appropriately to other prompts that appear.

Checking the status of SQL Server upgrades

1. Open the log file called C:\mvf-mig6\data\logs\migrate_database_to_IMPAX6.5.1.log
2. If the following warning appears in the log file, you can safely ignore it:

   ```
   Warning: The table 'CHANGE_CONTEXT_DETAIL' has been created but its maximum row size (8095) exceeds the maximum number of bytes per row (8060). INSERT or UPDATE of a row in this table will fail if the resulting row length exceeds 8060 bytes.
   ```

3. Ensure that `Migration Complete Successful` appears at the end of the log file.

Uninstalling the previous IMPAX software packages

1. Open Control Panel.
2. Select **Add or Remove Programs**.
3. Under Currently installed programs, select **Agfa IMPAX 6.2 *version*** , **Agfa IMPAX 6.3 *version*** , or **Agfa IMPAX AS300** (used for IMPAX 6.4 and later).
4. Click **Change/Remove**.

   or

   For uninstalling IMPAX 6.4 and later, click **Remove**.
5. When prompted, type your name (minimum three characters). Click **Next**.
6. In the Confirmation dialog, click **OK** or **Yes**.
7. On the Maintenance Complete screen, click **Finish**.
8. Restart the server.

Upgrading the IMPAX AS300 32-bit Database Server software

1. Insert the IMPAX AS300 DVD.
2. Navigate to D:\programs\mvf and double-click **as300-installer.exe**.
3. Type your name (minimum three characters).
4. On the Welcome screen, click **Next**.
5. On the Select features screen, all Default Packages are selected. Clear the checkboxes of any packages that should not be installed.

   For a single-host server, install all default packages except, potentially, the MVFocr package. For a dedicated Database Server, the MVFNetworkGateway package is not required, but can be installed.
6. Select the **Database Packages** label.

   If upgrading under SQL Server, clear the **Oracle Server Extension** checkbox and select the **SQL Server Extension** checkbox.

   If upgrading an IMPAX 6.4 or later Oracle Database Server, confirm that the **Oracle Server Extension** checkbox is selected.
7. For a dedicated Database Server (no archive), or if using PACS Store and Remember archiving only, clear the **Archive Packages** checkbox.
8. Select the **Optional Packages** label, then select the checkboxes of any optional packages that should be installed.
9. Click **Next**.
10. If a Network Gateway package was installed, browse to the location of the MVF license file and click **OK**.
11. If an Archive package was installed, browse to the location of the archive license file and click **OK**.
12. When prompted, type the password for the AgfaService user.
13. To confirm that the database is compatible, click **Yes**.
14. On the Ready to begin installation screen, click **Next**.
15. To display the log file for the database scripts, when prompted, click **No**.
16. After all the packages have been installed, click **Yes, I want to restart my computer now**.

Generating the AS300 portable password file

1. On the Database Server, open a command prompt.
2. Change to the **C:\mvf\bin** directory.
3. Type

   passkey -M EXPORT -k *temporary_password*

Updating the SQL Server registration

1. Select **Start** > **All Programs** > **Microsoft SQL Server 2008**.
2. Right-click **SQL Server Management Studio** and select **Run as**.
3. In the Run as dialog, select **The following user**.
4. From the User name list, select **AgfaService**.
5. In the Password field, type the password for the AgfaService account and click **OK**.

Applying patches and upgrading Oracle

1. Log into the Database Server as the Administrator.
2. Insert either the Oracle on Windows 32-bit DVD or the Oracle on Windows 64-bit DVD, depending on the version of Windows running on the server.
3. Open a command prompt.
4. Change to the c:\mvf-mig6\bin directory.
5. Type

   bash upgrade-oracle *location_of_DVD_drive_or_Oracle_software_repository*
6. If the upgrade-oracle script aborts, it could be the due to permission problems.
7. At the prompt `Ready to upgrade Oracle using repository <Oracle software location>. Do you want to proceed? [y/n]`

   Verify the Oracle software location. If the location is correct, type **y** and press **Enter**.

   or

If an Oracle Data Guard configuration is detected, you are prompted to continue the upgrade on the primary (or standby) server. Type **y** and press **Enter**.

Upgrading the IMPAX Oracle database schema to IMPAX 6.5.1

1. Open a command prompt.
2. Change to the C:\mvf-mig6\bin directory.
3. Type

   oracle-database-upgrade.bat
4. At the prompt `Ready to upgrade database. Do you want to proceed [y,n]?`, type **y** and press **Enter**.

Checking the status of Oracle upgrades

1. Navigate to the C:\mvf-mig6\data\logs directory.
2. Open the **database_upgrade.log** file.
3. Ensure that `Migration Complete Successful` appears at the end of the log file.
4. If this message does not appear, review the rest of the log file to see where the upgrade failed. Solve the problem, then rerun the upgrade script.

Uninstalling the previous IMPAX software packages

1. Open Control Panel.
2. Select **Add or Remove Programs**.
3. Under Currently installed programs, select **Agfa IMPAX 6.2 *version*** , **Agfa IMPAX 6.3 *version*** , or **Agfa IMPAX AS300** (used for IMPAX 6.4 and later).
4. Click **Change/Remove**.

   or

   For uninstalling IMPAX 6.4 and later, click **Remove**.
5. When prompted, type your name (minimum three characters). Click **Next**.
6. In the Confirmation dialog, click **OK** or **Yes**.
7. On the Maintenance Complete screen, click **Finish**.
8. Restart the server.

Upgrading the IMPAX AS300 32-bit or 64-bit Oracle Data Guard Database Server software

1. Insert the IMPAX AS300 DVD.
2. Navigate to D:\programs\mvf and double-click **as300-installer.exe**.
3. Type your name (minimum three characters).
4. On the Welcome screen, click **Next**.
5. On the Select features screen, all Default Packages are selected. Clear the **MVFNetworkGateway** checkbox and any other packages that are not required.
6. Select the **Database Packages** label.

   Confirm that the **Oracle Server Extension** checkbox is selected.
7. Clear the **Archive Packages** checkbox.
8. Select the **Optional Packages** label, then select the **MVForadg** checkbox. All other checkboxes should be cleared.
9. Click **Next**.
10. When prompted, type the password for the AgfaService user.
11. To confirm that the database is compatible, click **Yes**.
12. On the Ready to begin installation screen, click **Next**.
13. To display the log file for the database scripts, when prompted, click **Yes**.
14. Check the log files for errors, then close the log files.
15. After all the packages have been installed, click **Yes, I want to restart my computer now**.
16. When the computer restarts, log into Windows as an administrator-level user.
17. On both the primary and standby servers, restore the following files:

    C:\oracle\product\10.2.0\db_1\NETWORK\ADMIN\listener.ora.dg65

    C:\oracle\product\10.2.0\db_1\NETWORK\ADMIN\tnsnames.ora.dg65
18. Rename the new tnsnames.ora to **tnsnames.ora.new**, then restore the **tnsnames.ora** and the **listener.ora** files.

Upgrading the IMPAX AS300 32-bit Database Server software

1. Insert the IMPAX AS300 DVD.
2. Navigate to D:\programs\mvf and double-click **as300-installer.exe**.
3. Type your name (minimum three characters).
4. On the Welcome screen, click **Next**.
5. On the Select features screen, all Default Packages are selected. Clear the checkboxes of any packages that should not be installed.

   For a single-host server, install all default packages except, potentially, the MVFocr package. For a dedicated Database Server, the MVFNetworkGateway package is not required, but can be installed.
6. Select the **Database Packages** label.

   If upgrading under SQL Server, clear the **Oracle Server Extension** checkbox and select the **SQL Server Extension** checkbox.

   If upgrading an IMPAX 6.4 or later Oracle Database Server, confirm that the **Oracle Server Extension** checkbox is selected.
7. For a dedicated Database Server (no archive), or if using PACS Store and

Remember archiving only, clear the **Archive Packages** checkbox.

8. Select the **Optional Packages** label, then select the checkboxes of any optional packages that should be installed.
9. Click **Next**.
10. If a Network Gateway package was installed, browse to the location of the MVF license file and click **OK**.
11. If an Archive package was installed, browse to the location of the archive license file and click **OK**.
12. When prompted, type the password for the AgfaService user.
13. To confirm that the database is compatible, click **Yes**.
14. On the Ready to begin installation screen, click **Next**.
15. To display the log file for the database scripts, when prompted, click **No**.
16. After all the packages have been installed, click **Yes, I want to restart my computer now**.

Upgrading a dedicated 64-bit IMPAX AS300 Database Server

1. Insert the IMPAX AS300 DVD.
2. Navigate to **D:\programs\mvf** and double-click **as300-installer-64.exe**.
3. Type your name (minimum three characters).
4. On the Welcome screen, click **Next**.
5. On the Select features screen, the appropriate packages are already selected, so click **Next**.
6. On the Type of Install screen, select **Use an existing database** and click **Next**.
7. Click **Install**.
8. After all the packages have been installed, click **Yes, I want to restart my computer now**.

Generating the AS300 portable password file

1. On the Database Server, open a command prompt.
2. Change to the **C:\mvf\bin** directory.
3. Type

   passkey -M EXPORT -k *temporary_password*

Determining the version of the installed Oracle Client

1. Open a command prompt.
2. Type

   sqlplus -V

Uninstalling the previous version of Oracle Client

1. Select **Start** > **All Programs** > **Oracle - ohome** > **Oracle Installation Products** > **Universal Installer**.
2. Click **Deinstall Products**.
3. In the Inventory dialog on the Contents tab, select the **OraClient10_*home1*** checkbox, where *home1* can be any text.
4. Click **Remove**.
5. In the Confirmation dialog, to confirm the uninstall, click **Yes**.
6. After the uninstall is complete, to close the Universal Installer, click **Close**, then **Cancel**.
7. Open the Windows Administrative Tools and select **Services**.
8. Select the **Distributed Transaction Coordinator** service. If it started, click **Stop** to stop it.
9. From Windows Explorer, delete the ***drive_letter*:\oracle** directory.
10. From Windows Explorer, delete the **C:\Program Files\Oracle** directory.
11. Run regedit and delete the **HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE** key.
12. Restart the computer.

Installing and configuring the Oracle 10g Client for Windows

1. Insert the IMPAX Oracle for Windows 32-bit DVD.
2. From the DVD drive, run **setup.bat**.
3. At the `Install Oracle "client" or "server"?` prompt, type **client**.
4. At the `Hostname of the Oracle server [] ?` prompt, type the correct host name of the IMPAX Database Server.
5. At the `What machine is the repository host? [localhost]` prompt, if it is the localhost, press **Enter**. Otherwise, specify the appropriate IP address.
6. At the `Where is the software repository?` prompt, if installing from the DVD drive on F, press **Enter**. Otherwise, type the DVD drive or software repository directory.
7. At the `Where is the temporary work directory? [ C:\cygwin\temp] ?` prompt, click **Enter** to accept the default location. Otherwise, type the directory to use.
8. After the `Oracle installation complete` message appears, restart the server.

Upgrading to the 10.2.0.4 version of the Oracle Client for Windows

1. Insert the Oracle on Windows 32-bit DVD.
2. Open a command prompt.
3. Change to the **C:\mvf-mig6\bin** directory.
4. Type **bash upgrade-oracle *location_of_DVD_drive_or_Oracle_software_repository***

5. When you see the message `Ready to upgrade Oracle using repository Oracle software location. Do you want to proceed? [y/n]`, verify that the oracle software location is correct. If the location is correct, type **y** and press **Enter**.

Reconfiguring ODBC data source names

1. Open the Windows Administrative Tools.
2. Select **Data Sources (ODBC)**.
3. Switch to the **System DSN** tab.
4. Click **Add**.
5. In the Create New Data Source dialog, select **Oracle in *Oracle_instance_name***
6. Click **Finish**.
7. In the Data Source Name field, type **mvf**.
8. Type a description, if needed.
9. In the TNS Service Name field, type **MVF.world**.
10. In the User Name field, type **mvf**.
11. To save the changes and close the dialog, click **OK**.
12. To save the new sources and exit the ODBC Data Source Administrator dialog, click **OK**.
13. If reconfiguring the Application Server, repeat the previous steps for the **mvf_ora** DSN as well.

Backing up the AS300 SQL 2000 database

1. On the server running the AS300 database, select **Start** > **All Programs** > **Microsoft SQL Server** > **Enterprise Manager**.
2. In the Explorer window of the Enterprise Manager, expand **Console Root** > **Microsoft SQL Servers** > **SQL Server Group** > ***server*** > **Databases** > **MVF**
3. Select **Action** > **All Tasks** > **Backup database**.
4. In the SQL Server Backup screen, in the Backup section, select **Database–complete**.
5. Click **Add** and specify the directory to back up to.
6. To start the backup, click **OK**.
7. Exit the SQL Server Enterprise Manager.

Manually backing up the SQL database

1. Select **Start** > **All Programs** > **Microsoft SQL Server**.
2. Right-click **SQL Server Management Studio** and select **Run as**.
3. Select **The following user**. Type **AgfaService** as the user name, and the AgfaService password.
4. In the Object Explorer window, expand ***server*** > **Databases** > ***database_name***
5. Right-click ***database_name*** and select **Tasks** > **Backup**.
6. Configure the General and Options tabs according to your preferences for items such as the type of backup, the destination, and whether to overwrite or append to the media.
7. To start the backup, click **OK**.
8. Exit the SQL Server Management Studio.

Restoring the upgraded database on a new Database Server

1. Before starting the restore, confirm that the directory that will contain the mvf database files has the correct permission:
    a. In Windows Explorer, right-click the folder and select **Properties**.
    b. Switch to the **Security** tab.
    c. Click **Edit**.
    d. Click **Add**.
    e. Select **ImpaxSQLUser** and click **OK**.
    f. Grant **Full Control** to ImpaxSQLUser and click **OK**.
    g. To close the Properties dialog, click **OK**.
2. If you are restoring from tape, insert the backup tape into the tape drive.
3. In the Explorer window of the SQL Server Management Studio, expand ***server*** > **Databases**.
4. Right-click **Database** and select **Restore Database**.
5. In the Destination for restore section, in the To database field, type **mvf**.
6. In the Source for restore section, select **From device** and specify the backup media and location.
7. Under Backup set to restore backup set, select the mvf database backup set.
8. Switch to the **Options** tab.
9. In the Restore the database files section, change the location of the data files as needed.
10. Select **Leave database ready to use by rolling back uncommitted transactions. Additional transaction logs cannot be restored.** Click **OK**.
11. Create the mvf user login:
    a. Open SQL Server Management Studio.
    b. Select **Server** > **Security**.
    c. Right-click **Logins** and select **New login**.
    d. In the Login name field, type **mvf**.
    e. Select **SQL Server authentication** and in the Password field, type **mvf**.
    f. Clear the **Enforce password policy** checkbox and click **OK**.
12. Restore the mvf user permissions:
    a. Open SQL Server Management Studio.

b. Open a new query window.

c. Select **File** > **Open** and browse to C:\mvf\etc.

d. Select **recreate_user_mvf.sql** and click **Open**.

e. To execute the script, press **F5** or click **Execute**.

Upgrading the IMPAX SQL Server database schema to IMPAX 6.5.1

1. Open a command prompt.
2. Change to the **C:\mvf-mig6\bin** directory.
3. If upgrading from IMPAX 6.5, type

   database-upgrade-script.bat

   If upgrading from IMPAX 6.2, 6.3, or 6.4, type

   database-upgrade-script.bat -v {62 | 63 | 64}
4. At the prompt

   `Ready to upgrade database to version 6.5.1. Do you want to proceed [y,n]?`

   Verify that the *version_number* listed is correct—for example, that it says `62` if upgrading from IMPAX 6.2. If so, press **Enter** to continue.

   If the version is incorrect, type **q** and press **Enter**, then repeat the previous step with the correct version number specified.
5. If prompted for a report source, in most cases, type **UNKNOWN**.

   If using a queryable RIS and multiple Connectivity Managers, type the value used for the Connectivity Manager **issuer_of_*** and **mcf_bls_report_workflow domain_id** fields.
6. Respond appropriately to other prompts that appear.

Checking the status of SQL Server upgrades

1. Open the log file called C:\mvf-mig6\data\logs\migrate_database_to_IMPAX6.5.1.log
2. If the following warning appears in the log file, you can safely ignore it:

   ```
   Warning: The table 'CHANGE_CONTEXT_DETAIL' has been created but its maximum row size (8095) exceeds the maximum number of bytes per row (8060). INSERT or UPDATE of a row in this table will fail if the resulting row length exceeds 8060 bytes.
   ```
3. Ensure that `Migration Complete Successful` appears at the end of the log file.

Generating the AS300 portable password file

1. On the Database Server, open a command prompt.
2. Change to the **C:\mvf\bin** directory.
3. Type

   passkey -M EXPORT -k *temporary_password*

Overview of upgrading an IMPAX 6.5 Database Server to IMPAX 6.5.1

If the existing IMPAX 6.5 Database Server has an adequate hardware profile, you can upgrade it to IMPAX 6.5.1, saving on the cost of new hardware. Follow these steps:

1. Upgrade the SQL Server database schema and then check the status of the upgrade.

   or

   Upgrade the Oracle database schema and then check the status of the upgrade.
2. Uninstall the previous IMPAX software package.
3. Upgrade the IMPAX Oracle Data Guard Database Server software.

   or

   Upgrade the IMPAX AS300 32-bit Database Server software.

   or

   Upgrade a dedicated 64-bit IMPAX AS300 Database Server.

Upgrading the IMPAX SQL Server database schema to IMPAX 6.5.1

1. Open a command prompt.
2. Change to the **C:\mvf-mig6\bin** directory.
3. If upgrading from IMPAX 6.5, type

   database-upgrade-script.bat

   If upgrading from IMPAX 6.2, 6.3, or 6.4, type

   database-upgrade-script.bat -v {62 | 63 | 64}
4. At the prompt

   `Ready to upgrade database to version 6.5.1. Do you want to proceed [y,n]?`

   Verify that the *version_number* listed is correct—for example, that it says `62` if upgrading from IMPAX 6.2. If so, press **Enter** to continue.

   If the version is incorrect, type **q** and press **Enter**, then repeat the previous step with the correct version number specified.
5. If prompted for a report source, in most cases, type **UNKNOWN**.

   If using a queryable RIS and multiple Connectivity Managers, type the value used for the Connectivity Manager **issuer_of_*** and **mcf_bls_report_workflow domain_id** fields.

6. Respond appropriately to other prompts that appear.

Checking the status of SQL Server upgrades

1. Open the log file called C:\mvf-mig6\data\logs\migrate_database_to_IMPAX6.5.1.log
2. If the following warning appears in the log file, you can safely ignore it:

   ```
   Warning: The table 'CHANGE_CONTEXT_DETAIL' has been created but its maximum row size (8095) exceeds the maximum number of bytes per row (8060). INSERT or UPDATE of a row in this table will fail if the resulting row length exceeds 8060 bytes.
   ```

3. Ensure that `Migration Complete Successful` appears at the end of the log file.

Upgrading the IMPAX Oracle database schema to IMPAX 6.5.1

1. Open a command prompt.
2. Change to the C:\mvf-mig6\bin directory.
3. Type

   oracle-database-upgrade.bat

4. At the prompt `Ready to upgrade database. Do you want to proceed [y,n]?`, type **y** and press **Enter**.

Checking the status of Oracle upgrades

1. Navigate to the C:\mvf-mig6\data\logs directory.
2. Open the **database_upgrade.log** file.
3. Ensure that `Migration Complete Successful` appears at the end of the log file.
4. If this message does not appear, review the rest of the log file to see where the upgrade failed. Solve the problem, then rerun the upgrade script.

Uninstalling the previous IMPAX software packages

1. Open Control Panel.
2. Select **Add or Remove Programs**.
3. Under Currently installed programs, select **Agfa IMPAX 6.2 *version*** , **Agfa IMPAX 6.3 *version*** , or **Agfa IMPAX AS300** (used for IMPAX 6.4 and later).
4. Click **Change/Remove**.

   or

   For uninstalling IMPAX 6.4 and later, click **Remove**.
5. When prompted, type your name (minimum three characters). Click **Next**.
6. In the Confirmation dialog, click **OK** or **Yes**.
7. On the Maintenance Complete screen, click **Finish**.
8. Restart the server.

Upgrading the IMPAX AS300 32-bit or 64-bit Oracle Data Guard Database Server software

1. Insert the IMPAX AS300 DVD.
2. Navigate to D:\programs\mvf and double-click **as300-installer.exe**.
3. Type your name (minimum three characters).
4. On the Welcome screen, click **Next**.
5. On the Select features screen, all Default Packages are selected. Clear the **MVFNetworkGateway** checkbox and any other packages that are not required.
6. Select the **Database Packages** label. Confirm that the **Oracle Server Extension** checkbox is selected.
7. Clear the **Archive Packages** checkbox.
8. Select the **Optional Packages** label, then select the **MVForadg** checkbox. All other checkboxes should be cleared.
9. Click **Next**.
10. When prompted, type the password for the AgfaService user.
11. To confirm that the database is compatible, click **Yes**.
12. On the Ready to begin installation screen, click **Next**.
13. To display the log file for the database scripts, when prompted, click **Yes**.
14. Check the log files for errors, then close the log files.
15. After all the packages have been installed, click **Yes, I want to restart my computer now**.
16. When the computer restarts, log into Windows as an administrator-level user.
17. On both the primary and standby servers, restore the following files:

    C:\oracle\product\10.2.0\db_1\NETWORK\ADMIN\listener.ora.dg65

    C:\oracle\product\10.2.0\db_1\NETWORK\ADMIN\tnsnames.ora.dg65
18. Rename the new tnsnames.ora to **tnsnames.ora.new**, then restore the **tnsnames.ora** and the **listener.ora** files.

Upgrading the IMPAX AS300 32-bit Database Server software

1. Insert the IMPAX AS300 DVD.
2. Navigate to D:\programs\mvf and double-click **as300-installer.exe**.
3. Type your name (minimum three characters).

4. On the Welcome screen, click **Next**.
5. On the Select features screen, all Default Packages are selected. Clear the checkboxes of any packages that should not be installed.

   For a single-host server, install all default packages except, potentially, the MVFocr package. For a dedicated Database Server, the MVFNetworkGateway package is not required, but can be installed.
6. Select the **Database Packages** label.

   If upgrading under SQL Server, clear the **Oracle Server Extension** checkbox and select the **SQL Server Extension** checkbox.

   If upgrading an IMPAX 6.4 or later Oracle Database Server, confirm that the **Oracle Server Extension** checkbox is selected.
7. For a dedicated Database Server (no archive), or if using PACS Store and Remember archiving only, clear the **Archive Packages** checkbox.
8. Select the **Optional Packages** label, then select the checkboxes of any optional packages that should be installed.
9. Click **Next**.
10. If a Network Gateway package was installed, browse to the location of the MVF license file and click **OK**.
11. If an Archive package was installed, browse to the location of the archive license file and click **OK**.
12. When prompted, type the password for the AgfaService user.
13. To confirm that the database is compatible, click **Yes**.
14. On the Ready to begin installation screen, click **Next**.
15. To display the log file for the database scripts, when prompted, click **No**.
16. After all the packages have been installed, click **Yes, I want to restart my computer now**.

Upgrading a dedicated 64-bit IMPAX AS300 Database Server

1. Insert the IMPAX AS300 DVD.
2. Navigate to **D:\programs\mvf** and double-click **as300-installer-64.exe**.
3. Type your name (minimum three characters).
4. On the Welcome screen, click **Next**.
5. On the Select features screen, the appropriate packages are already selected, so click **Next**.
6. On the Type of Install screen, select **Use an existing database** and click **Next**.
7. Click **Install**.
8. After all the packages have been installed, click **Yes, I want to restart my computer now**.

Uninstalling the previous IMPAX software packages

1. Open Control Panel.
2. Select **Add or Remove Programs**.
3. Under Currently installed programs, select **Agfa IMPAX 6.2 *version*** , **Agfa IMPAX 6.3 *version*** , or **Agfa IMPAX AS300** (used for IMPAX 6.4 and later).
4. Click **Change/Remove**.

   or

   For uninstalling IMPAX 6.4 and later, click **Remove**.
5. When prompted, type your name (minimum three characters). Click **Next**.
6. In the Confirmation dialog, click **OK** or **Yes**.
7. On the Maintenance Complete screen, click **Finish**.
8. Restart the server.

Configuring the ODBC connection to the SQL Database Server

1. On the server to connect, open the Windows Administrative Tool and select **Data Sources (ODBC)**.
2. Switch to the **System DSN** tab.
3. Click **Add**.
4. In the Create New Data Source dialog, select **SQL Server**.
5. Click **Finish**.
6. In the Name field, type **mvf**.
7. In the Description field, type **mvf**.
8. In the Server list, type or select the Database Server name. Click **Next**.
9. If asked whether to overwrite the existing MVF_SQL, click **Yes**.
10. Select the **SQL Server Authentication** option.
11. In the Login ID and Password fields, type the username and password for the mvf user.
12. Click **Client Configuration**.
13. In the Add Network Library Configuration dialog, select **TCP/IP**. Click **OK**.
14. Click **Next**.
15. Select the **Change the default database to** checkbox.
16. From the list, select **mvf**. Click **Next**.
17. Clear the **Perform translation for character data** checkbox.
18. Click **Finish**.
19. To test the connection, click **Test Connection**.
20. In the ODBC Driver Connect dialog, type the password for the mvf user and click **OK**.
21. When prompted that the connection was successful, click **OK**.

22. To close the Oracle ODBC Driver Configuration dialog, click **OK**.
23. To close the ODBC Data Source Administrator window, click **OK**.

Installing the IMPAX 6.5.1 AS300 Network Gateway and Archive Server packages

1. Insert the IMPAX AS300 DVD.
2. Navigate to D:\programs\mvf and double-click **as300-installer.exe**.
3. Type your name (minimum three characters).
4. On the Welcome screen, click **Next**.
5. On the Select features screen, all Default Packages are selected. Clear the checkboxes of any packages that should not be installed.
6. Clear the **Database Packages** checkbox.
7. For Archive Servers, select the **Archive Package** label. The MVFhsm is the only archive package listed and is selected by default. If not using an HSM archive, clear the **MVFhsm** checkbox; otherwise, keep it selected.

   For dedicated Network Gateway servers, clear the **Archive Packages** checkbox.
8. Select the **Optional Packages** label.
9. Select any optional packages that should be installed, and clear the other checkboxes.
10. Click **Next**.
11. If installing a Network Gateway or Archive Server/Network Gateway combination, browse to the location of the MVF license file and click **OK**.
12. If installing an Archive Server or Archive Server/Network Gateway combination, browse to the location of the MVF archive license file and click **OK**.
13. Browse to the location of the portable password file and click **OK**.
14. Type the temporary password used to create the portable password file and click **Next**.
15. On the Summary screen, click **Next**.
16. After all the packages have been installed, click **Yes, I want to restart my computer now**.

Installing and configuring Store and Remember archiving

Some sites may want to have their studies mirrored at another site through PACS Store and Remember archiving. This mirroring protects against loss of data and allows studies from one PACS to be viewed at another. This can be achieved effectively using the PACS Archive Provider (PAP).

For instruction on installing and configuring a PACS Archive Provider, refer to "Configuring a PACS Archive Provider (PAP)" (topic number 11586) in the *IMPAX 6.5.1 AS300 Installation and Configuration Guide*.

Upgrading the Curator

All dedicated Curator stations need upgrading. Upgrade the master Curator first, by uninstalling the existing IMPAX software, then installing the IMPAX 6.5.1 AS300 software with the MVFCore, possibly MVFCache, MVFCurator, and MVFcdexport packages selected. Then upgrade all slave Curators in much the same way, except that the MVFcdexport package only has to be included on one of the slave Curators.

Uninstalling the previous IMPAX software packages

1. Open Control Panel.
2. Select **Add or Remove Programs**.
3. Under Currently installed programs, select **Agfa IMPAX 6.2 *version*** , **Agfa IMPAX 6.3 *version*** , or **Agfa IMPAX AS300** (used for IMPAX 6.4 and later).
4. Click **Change/Remove**.

   or

   For uninstalling IMPAX 6.4 and later, click **Remove**.
5. When prompted, type your name (minimum three characters). Click **Next**.
6. In the Confirmation dialog, click **OK** or **Yes**.
7. On the Maintenance Complete screen, click **Finish**.
8. Restart the server.

Installing the Curator and CD Export server software

1. Insert the IMPAX AS300 DVD.
2. Navigate to D:\programs\mvf and double-click **as300-installer.exe**.
3. Type your name (minimum three characters).
4. On the Welcome screen, click **Next**.
5. Clear the **Database Packages** checkbox.
6. Clear the **Archive Packages** checkbox.
7. Select the **Optional Packages** label and select the appropriate packages. **MVFCurator** must stay selected. **MVFcdexport** is also required except, perhaps, on slave Curators.
8. Click **Next**.
9. Browse to the location of the portable password file and click **OK**.
10. Type the temporary password used to create the portable password file and click **Next**.
11. On the Summary screen, click **Next**.
12. After all the packages have been installed, click **Yes, I want to restart my computer now**.

Migrating the master Curator from an all-in-one server to a separate server

1. Log into the master Curator machine—currently, the all-in-one server.
2. After all current Curator jobs have completed, in the Job Manager, halt the Curator job queue.
3. Install the Curator on a new machine by following the instructions in the *Curator and CD Export Server Installation Guide*.
4. Log into the new Curator server and start IMPAX services.
5. To ensure that the new Curator's ae_ref is recorded in the database, open an SQL editor an run the following query:

   select * from map_ae where ae_title=*New _Curator_ae_title*.
6. In CLUI, display a list of services by typing the following:

   service query
7. Using the results from the previous query, find the service_ref for the service with the appropriate values.
8. In CLUI, obtain the Curator queue_ref value by typing the following:

   queue query
9. Change the Master Curator service to the Curator installed on the new machine by running the following SQL Update statement:

   update map_queue set service_ref=*new_Curator_service_ref* where QUEUE_REF=*Curator_queue_ref*
10. Change ownership of the web cache to the new master Curator by running the following updated statement:

    update osr_volume set ae_ref=*new_Curator ae_ref* where ae_ref=*old_curator ae_ref* and volume_type='W'
11. Change the ae_ref values for all studies located in the web cache by running the following update statement:

    update dosr_study_location set ae_ref =*new_curator_ae_ref* where ae_ref=*old_curator_ae_ref* and volume_type='W' and study_ref > *a_study_ref* and study_ref <= *another_study_ref*.
12. Restart the Curator and Autopilot on the old and new Curator machines.
13. Restart the Curator queues.
14. Check in the master Curator log file to see if the following message appears:
15. If you have decided to leave the former Master Curator as the slave Curator, test that both Curators are running by following these steps:
    a. On the slave Curator machine, stop the Mitra Task Scheduler process and the Curator.
    b. Send a test study and check that the study is curated.
    c. Restart the Mitra Task Scheduler process and the Curator.
    d. Restart the Curator queue on the master Curator.
    e. Ensure that both Curators and the Mitra Task Scheduler are running.
16. If you have decided that the new Curator (the Master Curator) will be the only Curator, test that it works by sending a test study. Check that the images were curated.
17. If you have decided to remove the former Curator (the slave Curator), remove the Curator service. b

Removing the Curator service from the slave Curator

1. Log into the server whose service you want to remove.
2. Ensure that all of the service's jobs have completed.
3. Using the Job Manager, halt all the queues.
4. Stop all IMPAX services.
5. On Windows 2003 server, open Control Panel and select **Add Remove Programs**.

   or

   On Windows 2008 server, open Control Panel and select **Programs and Features**.
6. Uninstall IMPAX.
7. To use this server with other IMPAX services, reinstall IMPAX and exclude the Curator service from the installation.
8. After the IMPAX installation is complete, restart the IMPAX services.
9. Open CLUI and remove the service_ref of the removed service by typing:

   service delete *service_ref*
10. Restart all queues.

Migrating a cache volume from a flat to a hierarchical structure

1. At a command prompt on the system where the cache volume is local, type

   cache_migration.exe *parameters* (Windows)

   or

   cache-migration *parameters* (Solaris, logged in as mvf user)

Upgrading the Application Server from a previous version

Upgrade all Application Servers in the cluster to IMPAX 6.5.1.

Upgrading the ADAM database

If you are upgrading a cluster to Windows Server 2008, you must replicate the ADAM database instance on a new Windows 2008 server, which uses the AD LDS database.

Backing up the ADAM database

1. Select **Start** > **All Programs** > **Accessories** > **System Tools** > **Backup**.
2. Select **Tools** > **Options**.
3. Switch to the **Exclude Files** tab.
4. In the list of file names, select **C:\Program Files\Microsoft ADAM** and click **Remove**. Click **OK**.
5. When the Backup or Restore Wizard is displayed, clear the **Always start in Wizard mode** checkbox and click **Advanced Mode**.
6. On the Welcome screen, click **Backup Wizard**.
7. On the Backup Wizard screen, click **Next**.
8. On the What to Backup screen, select **Backup selected files, drives, or network data**. Click **Next**.
9. On the Items to Backup screen, select the folder containing the ADAM data as well as the **World Wide Web Publishing Service** folder. Click **Next**.
10. If backing up to a tape drive, under Backup media type, select the tape drive, and in the backup media area, click **New media**. Click **Next**.

    or

    If backing up to any other media type, select the location where the backup is to be saved, and type a name for the backup. Click **Next**.
11. On the Completing the Backup Wizard screen, click **Advanced**.
12. On the Type of Backup screen, select **Normal.** Click **Next**.
13. On the How to Backup screen, select **Verify data after backup and Use hardware compression if available.** Click **Next**.
14. On the Backup Options screen, select **Replace the existing backups**. Click **Next**.
15. On the When to Backup screen, select **Now**. Click **Finish**.
16. In the Backup Progress dialog, click **Close**.
17. Close the Backup Utility.

Stopping services on the Application Servers

1. On an Application Server, open the Windows Administrative Tools and select **Services**.
2. In the list of services, highlight the **World Wide Web Publishing Service**.
3. Click **Stop**.
4. Repeat steps 2 and 3 for the following services:
    a. **IMPAX Distributed License Manager**
    b. **IMPAX Messaging Service**
    c. **IMPAX App Server Data Manager**
    d. **IMPAX Audit Event Log Manager**
    e. **IMPAX Dicom Object Sender**
    f. **AGFA HealthCare Service**

Uninstalling IMPAX 6.2 documentation

1. Open Control Panel.
2. Select **Add or Remove Programs**.
3. Under Currently installed programs, select **IMPAX 6.2 Documentation**.
4. Click **Change/Remove**.
5. In the Confirmation dialog, click **OK**.
6. In the Maintenance Complete dialog, click **Finish**.
7. Under Currently installed programs, select **IMPAX Application Server Knowledge Base**.
8. Click **Change/Remove**.
9. In the Confirmation dialog, click **OK**.
10. In the Maintenance Complete dialog, click **Finish**.
11. Under Currently installed programs, select **Impax Client Knowledge Base**.
12. Click **Change/Remove**.
13. In the Confirmation dialog, click **OK**.
14. In the Maintenance Complete dialog, click **Finish**.
15. Under Currently installed programs, select **IMPAX Server Knowledge Base**.
16. Click **Change/Remove**.
17. In the Confirmation dialog, click **OK**.
18. In the Maintenance Complete dialog, click **Finish**.

Uninstalling IMPAX 6.3 or later documentation

1. Open Control Panel.
2. In Windows 2008 Service Pack 2, select **Programs and Features**.
3. In the Programs and Features dialog, under Currently installed programs, select **AGFA IMPAX *version* Knowledge Base *buildnumber* Documentation**.
4. Click **Remove**.
5. In the confirmation dialog, click **OK**.
6. Close the Programs and Features dialog.

Uninstalling the IMPAX Installation Server

1. Open Control Panel.

2. In Windows 2008 Service Pack 2, select **Programs and Features**.
3. Select **Agfa IMPAX Installation Server *version_number*** where *version_number* is the version of the installed Installation Server.
4. Right-click and select **Uninstall**.

Determining the version of the installed Oracle Client

1. Open a command prompt.
2. Type

   sqlplus -V

Removing ODBC entries prior to uninstalling the Oracle Client

1. Open the Windows Administrative Tools and select **Data Sources (ODBC)**.
2. In the ODBC Data Source Administrator screen, select the System DSN tab.
3. For each driver listed, select the associated name and click **Remove**.
4. Click **OK**.

Uninstalling the previous version of Oracle Client

1. Select **Start** > **All Programs** > **Oracle - ohome** > **Oracle Installation Products** > **Universal Installer**.
2. Click **Deinstall Products**.
3. In the Inventory dialog on the Contents tab, select the **OraClient10_*home1*** checkbox, where *home1* can be any text.
4. Click **Remove**.
5. In the Confirmation dialog, to confirm the uninstall, click **Yes**.
6. After the uninstall is complete, to close the Universal Installer, click **Close**, then **Cancel**.
7. Open the Windows Administrative Tools and select **Services**.
8. Select the **Distributed Transaction Coordinator** service. If it started, click **Stop** to stop it.
9. From Windows Explorer, delete the ***drive_letter*:\oracle** directory.
10. From Windows Explorer, delete the **C:\Program Files\Oracle** directory.
11. Run regedit and delete the **HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE** key.
12. Restart the computer.

Installing and configuring the Oracle 10g Client for Windows

1. Insert the IMPAX Oracle for Windows 32-bit DVD.
2. From the DVD drive, run **setup.bat**.
3. At the `Install Oracle "client" or "server"?` prompt, type **client**.
4. At the `Hostname of the Oracle server [] ?` prompt, type the correct host name of the IMPAX Database Server.
5. At the `What machine is the repository host? [localhost]` prompt, if it is the localhost, press **Enter**. Otherwise, specify the appropriate IP address.
6. At the `Where is the software repository?` prompt, if installing from the DVD drive on F, press **Enter**. Otherwise, type the DVD drive or software repository directory.
7. At the `Where is the temporary work directory? [ C:\cygwin\temp] ?` prompt, click **Enter** to accept the default location. Otherwise, type the directory to use.
8. After the `Oracle installation complete` message appears, restart the server.

Setting up a connection to the Oracle database

1. If the Net Configuration Assistant is not open, select **Start** > **All Programs** > **Oracle - ohome** > **Configuration and Migration Tools** > **Net Configuration Assistant**.
2. In the Oracle Net Configuration Assistant Welcome dialog, select **Local Net Service Name configuration** and click **Next**.
3. If the Naming Methods Configuration dialog appears, select **Local Naming**. Click **Next**.
4. In the Net Service Name Configuration screen, select **Add**. Click **Next**.
5. In the Service Name field, type **MVF**. Click **Next**.
6. From the list of protocols, select **TCP**. Click **Next**.
7. In the TCP/IP dialog, type the hostname of the Oracle server.
8. Accept the default port number (1521). Click **Next**.
9. Select **Yes, perform a test**. Click **Next**.
10. Click **Change Login**.
11. In the Username field, type **mvf**, and type the password for the mvf user.
12. Click **OK**.
13. Click **Next**.
14. In the Net Service Name field, ensure that **MVF.world** appears. Click **Next**.
15. If you do not want to add a net service name for RIS, select **No**. Click **Next**.

    or

    To add a net service name for RIS, at the prompt to configure another net service name, select **Yes**. Click **Next**. Then repeat all previous steps using a different service name (for example, qprod), as well as a

different host name, login, and net service name (for example QPROD.WORLD).

16. In the Net Service Name Configuration Complete dialog, click **Next**.
17. In the Naming Methods Configuration Complete dialog, click **Next**.
18. To close the Net Configuration Assistant dialog, click **Finish**.

Reconfiguring ODBC data source names

1. Open the Windows Administrative Tools.
2. Select **Data Sources (ODBC)**.
3. Switch to the **System DSN** tab.
4. Click **Add**.
5. In the Create New Data Source dialog, select **Oracle in *Oracle_instance_name***
6. Click **Finish**.
7. In the Data Source Name field, type **mvf**.
8. Type a description, if needed.
9. In the TNS Service Name field, type **MVF.world**.
10. In the User Name field, type **mvf**.
11. To save the changes and close the dialog, click **OK**.
12. To save the new sources and exit the ODBC Data Source Administrator dialog, click **OK**.
13. If reconfiguring the Application Server, repeat the previous steps for the **mvf_ora** DSN as well.

Upgrading to the 10.2.0.4 version of the Oracle Client for Windows

1. Insert the Oracle on Windows 32-bit DVD.
2. Open a command prompt.
3. Change to the **C:\mvf-mig6\bin** directory.
4. Type **bash upgrade-oracle *location_of_DVD_drive_or _Oracle_software_repository***
5. When you see the message `Ready to upgrade Oracle using repository Oracle software location. Do you want to proceed? [y/n]`, verify that the oracle software location is correct. If the location is correct, type **y** and press **Enter**.

Upgrading the IMPAX Application Server software to 6.5.1

1. Insert the IMPAX Business Services CD.
2. Navigate to the CD ROM drive, which contains the Business Services software.
3. Run **AGFA IMPAX Business Services Setup.exe**.
4. Click **Install**.
5. On the Welcome screen, click **Next**.
6. On the license agreement screen, select **I accept the terms in the license agreement**. Click **Next**.
7. On the Web Services Installation Folder screen, click **Change**.
8. Set the path to the **wwwroot** directory so that it matches the pre-upgrade installation location. Click **OK**.
9. Click **Next**.
10. On the Setup Type screen, select **Custom**. Click **Next**.
11. If you have an IMPAX RIS to connect to, click **RIS Web Services** and select **This feature will be installed on local hard drive**.
12. If you are using SmartCard authentication, verify that **NHS SmartCard Web Services** is selected. If it is not selected, select it. Select **This feature will be installed on local hard drive**.
13. Click **Next**.
14. Click **Install**.
15. On the InstallShield Wizard Completed screen, select **Launch IMPAX Business Services Configuration tool**. Click **Finish**.
16. When the message `Previous configuration found from version 6.X.X...` appears, click **Yes**. This message is not displayed when upgrading from IMPAX 6.5 to IMPAX 6.5.1.
17. In the Configuration Tool, click **Apply**.
18. To close the Configuration Tool, click **OK**.

Installing the IMPAX documentation

1. Insert the IMPAX Documentation DVD.
2. From the DVD root, double-click **IMPAXDocumentationSetup.exe**.
3. On the Welcome screen, click **Next**.
4. On the Setup Type screen, select the appropriate option and click **Next**.
5. If you selected Select Documentation to Install, on the Choose Features screen, you can select particular Knowledge Bases or languages to install.
6. On the Ready to Install the Program screen, click **Install**.
7. On the InstallShield Wizard Completed screen, click **Finish**.

Running the IMPAX Installation Server package

1. From the IMPAX Client CD or a network location, run **IMPAXInstallationServerSetup.exe**.
2. On the Welcome to the InstallShield Wizard for IMPAX Installation Server screen, click **Next**.
3. To install the application into C:\Inetpub\wwwroot\ClientInstaller, on the Destination Folder screen, click **Next**.

   or

To install the application to another location, click **Change**. In the Change Current Destination Folder dialog, browse for the directory location to install into and click **OK**. On the Destination Folder screen, click **Next**.

4. On the Ready to Install the Program screen, click **Install**.
5. On the Installation Wizard Completed screen, click **Finish**.
6. On the second Installation Wizard Completed screen, click **Finish**.

Running Healthcheck from a URL to check the status of web services

1. Ensure that the Healthcheck web.config file has been configured to the site's needs.
2. On the Application Server, launch Internet Explorer.
3. In the address bar, if Healthcheck has not been configured to automatically log in, type

   https://*fully_qualified_domain_name*/AgfaHC.Healthcheck.Escrow

   or

   https://*fully_qualified_domain_name*/AgfaHC.Healthcheck.Escrow/EscrowForm.aspx
4. If Healthcheck has not been configured to automatically log in, type an IMPAX Administrator username and password, select the login domain, and click **Log in**.
5. To determine what the problem is for any web services with the status Failed, review the **Comments**.
6. To check the status of the web services again, in Internet Explorer, click **Refresh**.

Upgrading additional Application Servers in the cluster

1. Upgrade the IMPAX Application Server software.
2. Verify the installation.

Upgrading the AD LDS database from IMPAX 6.5 to IMPAX 6.5.1

Unlike previous versions of the IMPAX Application Server, the AD LDS database must be migrated when upgrading from IMPAX 6.5 to 6.5.1. The migration is performed automatically during the software upgrade.

Creating a one-time backup of AD LDS

1. To open an elevated command prompt, click **Start**, right-click **Command Prompt** and select **Run as administrator**.
2. At the command prompt, type

   dsdbutil
3. At the dsdbutil prompt, type

   activate instance AgfaHealthcare
4. At the dsdbutil prompt, type

   ifm
5. At the ifm prompt, type

   create full *location*
6. At the ifm prompt, type

   quit

   At the dsdbutil prompt, type

   quit

Stopping services on the Application Servers

1. On an Application Server, open the Windows Administrative Tools and select **Services**.
2. In the list of services, highlight the **World Wide Web Publishing Service**.
3. Click **Stop**.
4. Repeat steps 2 and 3 for the following services:
   a. **IMPAX Distributed License Manager**
   b. **IMPAX Messaging Service**
   c. **IMPAX App Server Data Manager**
   d. **IMPAX Audit Event Log Manager**
   e. **IMPAX Dicom Object Sender**
   f. **AGFA HealthCare Service**

Uninstalling IMPAX 6.3 or later documentation

1. Open Control Panel.
2. In Windows 2008 Service Pack 2, select **Programs and Features**.
3. In the Programs and Features dialog, under Currently installed programs, select **AGFA IMPAX *version* Knowledge Base *buildnumber* Documentation**.
4. Click **Remove**.
5. In the confirmation dialog, click **OK**.
6. Close the Programs and Features dialog.

Uninstalling the IMPAX Installation Server

1. Open Control Panel.
2. In Windows 2008 Service Pack 2, select **Programs and Features**.
3. Select **Agfa IMPAX Installation Server *version_number*** where *version_number* is the version of the installed Installation Server.
4. Right-click and select **Uninstall**.

Upgrading the IMPAX Application Server software to 6.5.1

1. Insert the IMPAX Business Services CD.
2. Navigate to the CD ROM drive, which contains the Business Services software.
3. Click **Install**.
4. On the Welcome screen, click **Next**.

5. On the license agreement screen, select **I accept the terms in the license agreement**. Click **Next**.
6. On the Web Services Installation Folder screen, click **Change**.
7. Set the path to the **wwwroot** directory so that it matches the pre-upgrade installation location. Click **OK**.
8. Click **Next**.
9. On the Setup Type screen, select **Custom**. Click **Next**.
10. If you have an IMPAX RIS to connect to, click **RIS Web Services** and select **This feature will be installed on local hard drive**.
11. If you are using SmartCard authentication, verify that **NHS SmartCard Web Services** is selected. If it is not selected, select it. Select **This feature will be installed on local hard drive**.
12. Click **Next**.
13. Click **Install**.
14. On the InstallShield Wizard Completed screen, select **Launch IMPAX Business Services Configuration tool**. Click **Finish**.
15. In the Configuration Tool, click **Apply**.
16. To close the Configuration Tool, click **OK**.

Installing the IMPAX documentation

1. Insert the IMPAX Documentation DVD.
2. From the DVD root, double-click **IMPAXDocumentationSetup.exe**.
3. On the Welcome screen, click **Next**.
4. On the Setup Type screen, select the appropriate option and click **Next**.
5. If you selected Select Documentation to Install, on the Choose Features screen, you can select particular Knowledge Bases or languages to install.
6. On the Ready to Install the Program screen, click **Install**.
7. On the InstallShield Wizard Completed screen, click **Finish**.

Running the IMPAX Installation Server package

1. From the IMPAX Client CD or a network location, run **IMPAXInstallationServerSetup.exe**.
2. On the Welcome to the InstallShield Wizard for IMPAX Installation Server screen, click **Next**.
3. To install the application into C:\Inetpub\wwwroot\ClientInstaller, on the Destination Folder screen, click **Next**.

   or

   To install the application to another location, click **Change**. In the Change Current Destination Folder dialog, browse for the directory location to install into and click **OK**. On the Destination Folder screen, click **Next**.
4. On the Ready to Install the Program screen, click **Install**.
5. On the Installation Wizard Completed screen, click **Finish**.
6. On the second Installation Wizard Completed screen, click **Finish**.

Running Healthcheck from a URL to check the status of web services

1. Ensure that the Healthcheck web.config file has been configured to the site's needs.
2. On the Application Server, launch Internet Explorer.
3. In the address bar, if Healthcheck has not been configured to automatically log in, type

   https://*fully_qualified_domain_name*/AgfaHC.Healthcheck.Escrow

   or

   https://*fully_qualified_domain_name*/AgfaHC.Healthcheck.Escrow/EscrowForm.aspx
4. If Healthcheck has not been configured to automatically log in, type an IMPAX Administrator username and password, select the login domain, and click **Log in**.
5. To determine what the problem is for any web services with the status Failed, review the **Comments**.
6. To check the status of the web services again, in Internet Explorer, click **Refresh**.

Upgrading additional Application Servers in the cluster

1. Upgrade the IMPAX Application Server software.
2. Verify the installation.

Migrating an Application Server from a Windows 2003 server to a Windows 2008 server

All Application Servers in the same cluster must be running the same operating system—either Windows Server 2003 or Windows Server 2008. When migrating from Windows 2003 to Windows 2008, you must replicate the ADAM data on the Windows 2003 server to the AD LDS database on the new Windows 2008 server.

Configuring the Audit Record Repository database connection

1. On the IMPAX Database Server, open a command prompt or terminal window.
2. Change to the **C:\mvf\bin** (AS300) or **/usr/mvf/bin** (AS3000, logged in as mvf user) directory.
3. Type **clui**.
4. To check if the entry already exists in the database, type
5. If the entry exists, to update the entry, type

Installing the IMPAX Client

1. From the IMPAX Client CD or the IMPAX Client Installation web page (https://*install_server_name*/clientinstaller/*language_code*), start the IMPAX Client installation program, **IMPAXClientSetup.exe**.
2. If a File Download dialog appears, click **Open** or **Run**.
3. If a prompt appears about downloading and installing missing components, click **OK**.
4. Follow the prompts to download and install Microsoft .NET Framework 3.5, Microsoft .NET Framework 3.5 SP1, or all.
5. On the Welcome to the InstallShield Wizard for IMPAX Client screen, click **Next**.
6. On the License Agreement screen, read the license agreement. If you agree, select **I accept the terms in the license agreement**. Click **Next**.
7. To install the application into C:\Program Files\Agfa\IMPAX Client, on the Destination Folder screen, click **Next**.

   or

   To install the application to another location, click **Change**. In the Change Current Destination Folder dialog, browse for the directory location to install into and click **OK**. On the Destination Folder screen, click **Next**.
8. On the IMPAX Application Server screen, in the Get or confirm application server name field, type the fully qualified domain name of the Application Server to use. Click **Next**.
9. On the IMPAX Login Type screen, select the appropriate authentication method: Windows, IMPAX, or Smart Card.
10. Click **Next**.
11. On the Ready to Install the Program screen, click **Install**.
12. On the InstallShield Wizard Completed screen, click **Finish**.

Restarting antivirus software

1. On a Windows server where scanning was stopped, launch the antivirus software.
2. Start the scan operation according to the vendor's instructions.

Testing the installed software

1. On the IMPAX Database Server, run the Administration Tools and ensure that you can log in using the administration password.
2. On the Application Server, open a web browser and connect to http://localhost. Ensure that the "Welcome to IMPAX" page is displayed.
3. Run the IMPAX Client and ensure that you can log in using the administration password.

Restarting an archive queue

1. Log into the IMPAX 6.5.1 Administration Tools.
2. On the Daily tab, select **Job Manager**.
3. In the queue list, select the archive queue.
4. Click **Restart**.

Restarting Connectivity Manager queues

1. In the Connectivity Manager Service Tools, click **Queue Manager**.
2. In the Queue List table, select the checkbox beside the queue of any system device or real world device with a *DM Out* or *impax_report_server* Component.
3. Click **start**.

Taking a post-upgrade system snapshot

1. In a command prompt or terminal window, change to the directory containing the migration_inventory tool.
2. On a Windows server, type

   migration_inventory -s -d *database_name* -U *database_user_name* -P *database_password* -D *database_server_host_name*

   On a Solaris server, log in as mvf user and type

   ./migration_inventory -s -d *database_name* -U *database_user_name* -P *database_password* -D *database_server_host_name*
3. To create a report file with this information, in Windows, type

   mig_reporter -t system_inventory_tool

   In Solaris, type

   ./mig-reporter -t system_inventory_tool

Comparing pre- and post-upgrade snapshots

Open the report file that contains the pre- and post-upgrade snapshot information. Compare the pre- and post-upgrade information. Ensure that all expected studies, objects, stations, and DICOM printers are still listed.

Synchronizing Windows servers to an external time source

1. To open Registry Editor, select **Start** > **Run**, type **regedit**, and click **OK**.
2. To change the synchronization server to NTP, in the **HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\W32Time**

Parameters\Type subkey, change the REG_SZ value from NT5DS to **NTP**.

3. To specify if the local machine is a local time server, in the **HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Services\W32Time\ Config\AnnounceFlags** subkey, change the REG_DWORD value to **5**.
4. To enable the NTPServer, in the **HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Services\W32Time\ TimeProviders\ NtpServer\Enabled** subkey, change the REG_DWORD value to **1**.
5. To specify where the computer obtains time stamps, in the **HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Services\W32Time\ Parameters\ NtpServer** subkey, enter the list of DNS names or IP addresses.
6. To set the poll interval, in the **HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Services\W32Time\ TimeProviders\NtpClient\ SpecialPollInterval** subkey, change the REG_DWORD value to the number of seconds between each poll.
7. To specify the maximum positive difference that triggers a synchronization, in the **HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Services\W32Time\ Config\MaxPosPhaseCorrection** subkey, change the REG_DWORD value to the maximum number of seconds.
8. Similarly, to specify the maximum negative difference that triggers a synchronization, in the **HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Services\W32Time\ Config\MaxNegPhaseCorrection** subkey, change the REG_DWORD value to the maximum number of seconds.
9. Exit the Registry Editor.
10. To stop and restart the Windows Time server, at a command prompt, type **net stop w32time && net start w32time**.

Synchronizing Windows servers to an internal time source

1. To open Registry Editor, select **Start** > **Run**, type **regedit**, and click **OK**.
2. To specify if the local machine is a local time server, in the **HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\Services\W32Time\ Config\AnnounceFlags** subkey, change **REG_DWORD** to **A**.
3. Exit the Registry Editor.
4. To stop and restart the Windows Time server, at a command prompt, type **net stop w32time && net start w32time**.

Synchronizing with a time server when the IMPAX computer is not a member of a domain

1. Open Control Panel.
2. Select **Date and Time**.
3. Switch to the **Server Internet Time** tab.
4. In the list, type or select the time server to synchronize with.

Synchronizing with a time server when the IMPAX computer is a member of a domain

1. Open a command prompt.
2. Type

   w32tm /config /syncfromflags:manual /manualpeerlist:*time_server*
3. To update Windows Time Service to use the new configuration, type

   w32tm /config /update
4. To synchronize the clock, type

   w32tm /resync

Installing the PSARMT and cache tools on a Windows server

1. Insert the IMPAX AS300 CD.
2. Navigate to the programs\mvf directory and double-click **mvfcachecheck-6.5.0.*xx*.exe** (cache check and repair tools).
3. On the Welcome screen, click **Next**.
4. On the Setup Complete screen, click **Finish**.
5. Navigate to the programs\mvf directory and double-click **mvfpsarmt-6.5.0.*xx*.exe** (PSARMT Migration Tools).
6. On the Welcome screen, click **Next**.
7. On the Setup Complete screen, click **Finish**.
8. Remove the IMPAX AS300 CD.

Running PSARMT to mark studies from an external PACS as PACS archived

1. Navigate to the C:\mvf directory.
2. Build the PSARMT database tables by running **build-mvf-psarmt-database.bat**.
3. Install the PSARMT Tools as services by running **install_psarmt.bat**.
4. Specify the migration configuration by running **mvf_psarmt_config_manager.exe**.
5. Start the PSARMT services by running **start_psarmt.bat**.
6. Perform the migration, based on the configuration defined in step 4, by running **mvf_psarmt.exe**.

Uninstalling the IMPAX Migration Tools from a Windows computer

1. Open Control Panel.
2. On Windows 2003 servers, select **Add or Remove Programs**.

   On Windows 2008 servers, select **Programs and Features**.

3. Select **IMPAX 6.5.1 AS300 Migration 6.5.0.*xxx***
4. On Windows 2003 servers, click **Change/Remove**. On Windows 2008 servers, click **Uninstall**.
5. In the Confirm File Deletion dialog, click **Yes**.
6. At the Uninstall complete prompt, click **Finish**.

Uninstalling the Cross-Cluster Dictation Interlock tool

1. On the previous version IMPAX Application Server where the Cross-Cluster Dictation Interlock components were installed, open the Windows Administrative Tools and select **Services**.
2. Right-click the **Impax Study Status Relay** service and select **Stop**.
3. Close the Services window by selecting **File** > **Exit**.
4. Open a command prompt.
5. Change to the directory containing the Cross-Cluster Dictation Interlock components—possibly C:\Program Files\Agfa\Impax Business Services.
6. Type **uninstall_study_status_relay_service.bat**.
7. Close the command prompt by typing **exit**.
8. From Windows Explorer, navigate to and delete the **study-status-signal-relay** folder (possibly from C:\Program Files\Agfa\Impax Business Services).
9. On the IMPAX 6.5.1 Application Server where the 6.5.1 Cross-Cluster Dictation Interlock components were copied, follow steps 1 to 7.
10. Log into a previous version IMPAX Client as an administrator user.
11. From the Configure area - Users and Roles section, delete the **remote-dictation** user from the Study Status Relay role, then delete the **Study Status Relay** role.
12. Log into an IMPAX 6.5.1 Client as an administrator user and repeat the previous step on it.