AS300 Upgrade Tasks Summary—IMPAX 5.2 or 5.3 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**.

Stop transmitting data to IMPAX

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 IMPAX Service 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**.

Redirecting studies to the training server

Configure modalities to redirect studies to the training server system, so that they remain accessible to the IMPAX 6.5.1 Clients while the migration continues.

Verifying unverified studies

1. In the Service 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 Service 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 Service 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 Service 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**.

Deleting cache locations for studies

1. On a station with a cache containing database references to remove, log in as mvf user and launch CLUI and type the following:

   cache query
2. To store all study_refs into variable *a*, type

   save_refs a select distinct ds.study_ref from dosr_study ds, dosr_object do where ds.study_ref = do.study_ref and do.object_ref in (select object_ref from osr_location where volume_ref = *volume_ref*)
3. To enter menu mode, type

   Go menu
4. Select **Study Manager**.
5. Select **Delete Studies Menu**.
6. Select **Delete Study from Cache**.
7. To process the study_refs stored in the variable *a*, at the command prompt, type **a**.
8. Repeat this process on each station in the cluster that has a cache and whose database references you want to remove.

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 Service 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.

Removing the IMPAX 5.2 or 5.3 Client Knowledge Base

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

   or

   On Windows 2008 servers, click **Programs and Features**.
3. On Windows 2003 servers, select **IMPAX Client Knowledge Base 5.2** or **IMPAX Client Knowledge Base 5.3** and click **Change/Remove**.

   or

   On Windows 2008 servers, select **IMPAX Client Knowledge Base 5.2** or **IMPAX Client Knowledge Base 5.3** and click **Uninstall**.

4. In the Confirmation dialog, click **OK**.
5. If also uninstalling the IMPAX Server Knowledge Base, in the Maintenance Complete dialog, select **No, I will restart my computer later**. Otherwise, select **Yes, I want to restart my computer now** and click **Finish**.
6. If you restarted the computer, log into Windows as an administrator-level user.
7. To remove any translations of the IMPAX 5.2 or 5.3 Client Knowledge Base, delete the **C:/impax/documents/client/translations** directory.

Removing the IMPAX 5.2 Server Knowledge Base

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 Server Knowledge Base 5.2**.
4. On Windows 2003 servers, click **Change/Remove**. On Windows 2008 servers, click **Uninstall**.
5. In the Confirmation dialog, click **OK**.
6. In the Maintenance Complete dialog, select **Yes, I want to restart my computer now** and click **Finish**.

Upgrading to Windows Server 2008

IMPAX 5.2 and 5.3 can be run on the Microsoft Windows 2000 or Windows Server 2003 operating systems. When upgrading to IMPAX 6.5.1, you have the option of staying with Windows Server 2003 or upgrading to Windows Server 2008. If you are currently running Windows 2000, you must upgrade to Windows Server 2008. You cannot stay on Windows 2000.

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

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 for critical Windows XP or 2003 updates

1. Open Control Panel.
2. Select **System**.
3. Switch to the **Automatic Updates** tab.
4. Select **Download updates for me, but let me choose when to install them**.
5. To apply the changes, click **OK**.
6. To verify that the Automatic Updates service is started, at a command prompt, type **net start**.
7. Verify that Automatic Updates is included in the list of services.

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.

Upgrading to Internet Explorer 7

1. Launch Internet Explorer on a computer connected to the Internet.
2. Go to

   http://www.microsoft.com/windows/internet-explorer/ie7/
3. From this page, you can either download Internet Explorer 7 or order it on CD.
4. Once you have obtained the software, run it on each server that needs upgrading.
5. To install the software, follow the on-screen prompts.

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.

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 5.2 or 5.3 database schema to IMPAX 6.5.1

1. On the Database Server, open a command prompt.
2. Change to the **C:\mvf-mig6\bin** directory.
3. If upgrading from IMPAX 5.2, type

   database-upgrade-script.bat -U sa -P *sapwd* -v 52

   If upgrading from IMPAX 5.3, type

   database-upgrade-script.bat -U sa -P *sapwd* -v 53
4. At the prompt

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

   Type **y** to continue.
5. If prompted for the fully qualified host name of the login server, type the fully qualified host name of the Application Server.
6. When prompted for a report source, if the Connectivity Manager query you ran previously returned a single value, use that value as the report source. If the query returned multiple values for the requesting_service field, consult a Connectivity Manager integrator, as mappings may also need to be changed.
7. 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.

Taking the training server offline

1. On the training server system, launch the Administration Tools and log in as the **service** user.
2. On the Daily tab, select **Job Manager**.
3. Select **All Queues**.
4. Click **Halt Queue**. 
5. Monitor each **Transmit** queue and wait for all outgoing jobs to finish.
6. Select each Transmit queue and click **Halt Queue**.
7. To confirm that you want to halt the queue, click **Yes**.
8. To stop and disable all IMPAX services:
   a. Open a command prompt.
   b. Change to the **C:\mvf\bin** directory.
   c. Type **stopall.bat**.
   d. Type **removeall.bat**.
   e. Exit the command prompt.
9. To prevent Client interaction, open the Windows Administrative Tools and select **Services**. Stop the **World Wide Web Publishing Service (IIS)**.

Backing up the training server database

1. Log into the training server as the **AgfaService** user.
2. Stop the database by stopping the OracleServiceMVF Windows Service.
3. From the C:\oracle\product\10.2.0\db_1\database directory, copy the **PWDMVF.ora** and **spfileMVF.ora** to a different system.
4. Determine where the data files are located; for example, in E:\data\dbase.
5. Copy the entire **dbase** folder to a different system.

Migrating worklist and report data

1. On the Application Server, launch the Migrate training/traveling server data tool by running the **C:\mvf-mig6\MigrateTRServer\MigrateTRServer.exe** file.
2. If migrating worklist data, select the **Migrate Worklist Data** checkbox.
3. If migrating report data, select the **Migrate Report Data** checkbox.
4. Under Source, supply the database information for the training server, as follows:
   a. Click **Modify**. 
   b. In the Data Link Properties dialog, select **Oracle Provider for OLE DB**. Click **Next**.
   c. In the Data Source field, type **mvf_ts.world** or the name of the tns entry in the tnsnames.ora file.
   d. Select **Use a specific name and password** and type the database user name—normally **dbadmin**.
   e. Click **OK**.
   f. In the Migrate training/traveling server data dialog, type the database password.
5. Under Destination, supply the database information for the production server (the upgraded IMPAX 6.5.1 server) as follows:
   a. Click **Modify**. 

b. In the Data Link Properties dialog, select **Microsoft OLE DB Provider for SQL Server**. Click **Next**.

c. In the Data Source field, type mvf_ts.world or the name of the tns entry that was created in tnsnames.ora.

d. Select **Use a specific name and password** and type the database user name—normally **sa**.

e. In the Select the database on the server field, type **mvf**.

f. Click **OK**.

g. In the Migrate training/traveling server data dialog, under Destination, type the database password.

6. If you have defined Source and Destination information for worklists and also need to migrate report data, under Reports, define the Source and Destination database information by following step 4 and step 5.
7. When all appropriate Source and Destination information is filled in, click **Migrate Data**.
8. When the migration is complete, close the DTSResults dialog.

Uninstalling the previous IMPAX software packages

1. Open Control Panel.
2. Select **Add or Remove Programs**.
3. Under Currently installed programs, select **Agfa IMPAX 5.2 *version*** or **Agfa IMPAX 5.3 *version*** .
4. Click **Change/Remove**.
5. When prompted, type your name (minimum three characters). Click **Next**.
6. In the Confirmation dialog, click **OK**.
7. On the Maintenance Complete screen, click **Finish**.
8. Restart the server.

Determining a password for the AgfaService account

During the IMPAX Server software installation, you are prompted to create a password for the AgfaService account. The password must conform to the following requirements:

- Be at least eight characters long
- Not contain three or more characters from the user's account name
- Contain characters from at least three of the following five categories:
  - Uppercase (A to Z)
  - Lowercase (a to z)
  - Digits (0 to 9)
  - Non-alphanumeric (for example, !, $, #, or %); avoid commas
  - Unicode

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.

   Clear the **Oracle Server Extension** checkbox and select the **SQL Server Extension** checkbox.
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**.

Configuring Data Execution Prevention (DEP)

1. Right-click **Computer** and select **Properties**.
2. Under Tasks in the left pane, select **Advanced system settings**.
3. If not selected, switch to the **Advanced** tab.
4. Under Performance, click **Settings**.
5. Switch to the **Data Execution Prevention** tab.
6. In the Performance Options dialog, select **Turn on DEP for all programs and services except those I select**.
7. For each IMPAX executable in the list that follows, click **Add**, navigate to C:\mvf\bin, select the executable, and click **Open**:
   a. **curator.exe**
   b. **ddo_create.exe**
   c. **ddo_store.exe**
   d. **mvf_scp.exe**
   e. **mvf_scu.exe**
   f. **mvf_compressor.exe**
   g. **mvf_autopilot.exe**
8. Click **OK** and close all open dialogs.
9. Restart the system.

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.

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**.

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 5.2 or 5.3 database schema to IMPAX 6.5.1

1. On the Database Server, open a command prompt.
2. Change to the **C:\mvf-mig6\bin** directory.
3. If upgrading from IMPAX 5.2, type

   database-upgrade-script.bat -U sa -P *sapwd* -v 52

   If upgrading from IMPAX 5.3, type

   database-upgrade-script.bat -U sa -P *sapwd* -v 53
4. At the prompt

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

   Type **y** to continue.
5. If prompted for the fully qualified host name of the login server, type the fully qualified host name of the Application Server.
6. When prompted for a report source, if the Connectivity Manager query you ran previously returned a single value, use that value as the report source. If the query returned multiple values for the requesting_service field, consult a Connectivity Manager integrator, as mappings may also need to be changed.
7. 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.

Taking the training server offline

1. On the training server system, launch the Administration Tools and log in as the **service** user.
2. On the Daily tab, select **Job Manager**. 
3. Select **All Queues**.
4. Click **Halt Queue**. 
5. Monitor each **Transmit** queue and wait for all outgoing jobs to finish.
6. Select each Transmit queue and click **Halt Queue**.
7. To confirm that you want to halt the queue, click **Yes**.
8. To stop and disable all IMPAX services:
   a. Open a command prompt.
   b. Change to the **C:\mvf\bin** directory.
   c. Type **stopall.bat**.
   d. Type **removeall.bat**.
   e. Exit the command prompt.
9. To prevent Client interaction, open the Windows Administrative Tools and select **Services**. Stop the **World Wide Web Publishing Service (IIS)**.

Backing up the training server database

1. Log into the training server as the **AgfaService** user.
2. Stop the database by stopping the OracleServiceMVF Windows Service.
3. From the C:\oracle\product\10.2.0\db_1\database directory, copy the **PWDMVF.ora** and **spfileMVF.ora** to a different system.
4. Determine where the data files are located; for example, in E:\data\dbase.
5. Copy the entire **dbase** folder to a different system.

Migrating worklist and report data

1. On the Application Server, launch the Migrate training/traveling server data tool by running the **C:\mvf-mig6\MigrateTRServer\MigrateTRServer.exe** file.
2. If migrating worklist data, select the **Migrate Worklist Data** checkbox.
3. If migrating report data, select the **Migrate Report Data** checkbox.
4. Under Source, supply the database information for the training server, as follows:
   a. Click **Modify**. 
   b. In the Data Link Properties dialog, select **Oracle Provider for OLE DB**. Click **Next**.

c. In the Data Source field, type **mvf_ts.world** or the name of the tns entry in the tnsnames.ora file.

d. Select **Use a specific name and password** and type the database user name—normally **dbadmin**.

e. Click **OK**.

f. In the Migrate training/traveling server data dialog, type the database password.

5. Under Destination, supply the database information for the production server (the upgraded IMPAX 6.5.1 server) as follows:

a. Click **Modify**. 

b. In the Data Link Properties dialog, select **Microsoft OLE DB Provider for SQL Server**. Click **Next**.

c. In the Data Source field, type mvf_ts.world or the name of the tns entry that was created in tnsnames.ora.

d. Select **Use a specific name and password** and type the database user name—normally **sa**.

e. In the Select the database on the server field, type **mvf**.

f. Click **OK**.

g. In the Migrate training/traveling server data dialog, under Destination, type the database password.

6. If you have defined Source and Destination information for worklists and also need to migrate report data, under Reports, define the Source and Destination database information by following step 4 and step 5.

7. When all appropriate Source and Destination information is filled in, click **Migrate Data**.

8. When the migration is complete, close the DTSResults dialog.

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*

Uninstalling the previous IMPAX software packages

1. Open Control Panel.
2. Select **Add or Remove Programs**.
3. Under Currently installed programs, select **Agfa IMPAX 5.2 *version*** or **Agfa IMPAX 5.3 *version*** .
4. Click **Change/Remove**.
5. When prompted, type your name (minimum three characters). Click **Next**.
6. In the Confirmation dialog, click **OK**.
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*.

Configuring Data Execution Prevention (DEP)

1. Right-click **Computer** and select **Properties**.
2. Under Tasks in the left pane, select **Advanced system settings**.
3. If not selected, switch to the **Advanced** tab.
4. Under Performance, click **Settings**.
5. Switch to the **Data Execution Prevention** tab.
6. In the Performance Options dialog, select **Turn on DEP for all programs and services except those I select**.
7. For each IMPAX executable in the list that follows, click **Add**, navigate to C:\mvf\bin, select the executable, and click **Open**:
   a. **curator.exe**
   b. **ddo_create.exe**
   c. **ddo_store.exe**
   d. **mvf_scp.exe**
   e. **mvf_scu.exe**
   f. **mvf_compressor.exe**
   g. **mvf_autopilot.exe**
8. Click **OK** and close all open dialogs.
9. Restart the system.

Reconfiguring the Application Server

1. Disable the connection to the temporary IMPAX 6.5.1 database, to the IMPAX 5.2 or 5.3 database and, if applicable, to the WEB1000 Server.
2. Connect to the production IMPAX 6.5.1 database.
3. Import the portable password file generated from the production 6.5.1 Database Server.
4. Set the password and account lockout policies.
5. Connect to a non-queryable RIS and remove an IP address from the IP filtering list.
6. Perform other Application Server configurations that could not be completed during the preparing to upgrade period, such as managing web services, setting up Healthcheck, and managing SSL certificates.

Disabling SQL connections

1. On the Application Server, open the Windows Administrative Tools and select **Data Sources (ODBC)**.
2. Switch to the **System DSN** tab.
3. Select the name of the IMPAX 5.2 or 5.3 database.
4. Click **Remove**. Confirm the removal.
5. If a connection to the WEB1000 Server was set up, select the name of that database and click **Remove**. Confirm the removal.
6. Click **OK**.

Connecting to the IMPAX 6.5.1 SQL Server database

1. On the Application Server, select **Start** > **All Programs** > **Agfa Healthcare** > **Business Services** > **Configuration Tool**.
2. In the IMPAX Business Services Configuration tool, switch to the **Database** tab.
3. Under Database Type, select **SQL Server**.
4. Under Database Connection Settings, type the SQL Server Database Server name.
5. Click **Configure ODBC**.

6. In the ODBC Data Source Administrator dialog, switch to the **System DSN** tab.
7. Click **Add**.
8. In the Create New Data Source dialog, select **SQL Server**. Click **Finish**.
9. In the Create a New Data Source to SQL Server dialog, in the Name field, type **mvf_sql**.
10. In the Description field, type **mvf**.
11. From the Server list, select the name of the SQL Server. Click **Next**.
12. Click **SQL Server Authentication**.
13. Ensure that the **Connect to SQL Server to obtain** checkbox is selected.
14. In the Login ID field, type **mvf**.
15. In the Password field, type **mvf**.
16. Click **Client Configuration**.
17. In the Add Network Library Configuration dialog, ensure that **TCP/IP** is selected. Click **OK**.
18. Click **Next**.
19. Select the **Change the default database to** checkbox.
20. From the list, ensure that **mvf** is selected. Click **Next**.
21. Clear the **Perform translation for character data** checkbox. Click **Finish**.
22. To test the connection, click **Test Data Source**.
23. When prompted that the connection was successful, click **OK**.
24. To close the ODBC Microsoft SQL Server Setup dialog, click **OK**.
25. To close the ODBC Data Source Administrator dialog, click **OK**.
26. In the IMPAX Business Services Configuration tool, click **Test**.
27. If the message `Connection to SQL Server database successful` appears, click **OK**.

    If the test fails, verify that the SQL Server Name is correct and test the connection again.
28. Click **Apply**.

Importing the portable password file to the Application Server

1. Select **Start** > **All Programs** > **Agfa Healthcare** > **Business Services** > **Configuration Tool**.
2. In the IMPAX Business Services Configuration tool, switch to the **Security** tab.
3. Click **Import Password**.
4. Navigate to the mvf.portable.psd file and click **Open**.
5. At the prompt, enter the temporary password identified when creating the portable password. Click **OK**.
6. At the confirmation message, click **OK**.
7. Click **Apply**.

Setting the password and account lockout policies

To perform the user migrations, the password and account lockout policies were disabled. You can now reset these according to the site's IT department policies.

Connecting the Application Server to a non-queryable non-IMPAX RIS

1. Configure the custom RIS mappings in Connectivity Manager.
2. Open the Business Services Configuration Tool.
3. Switch to the **Web Services** tab.
4. In the Report Info Sources area, click **Add**.
5. To check the value of the requesting_service field in the Connectivity Manager database, type

   use mcf;

   select distinct requesting_service from mcf_service_request;
6. In the Edit Report Source dialog, type the requesting_service value returned in the previous step into the Report Source Provider field.
7. From the RIS Type list, select **Connectivity Manager Non-Queryable RIS**. Click **OK**.
8. Under Connectivity Manager IP Filtering, in the Grant Access to IP field, type the IP address of the Connectivity Manager and click **Add**.
9. To close the Business Services Configuration Tool, click **OK**.

Uninstalling IMPAX 6.5.1 Server

1. Ensure that the training server (the future Curator station) is offline.
2. Open Control Panel.
3. Depending on the version of Windows, select **Add or Remove Programs** or **Programs and Features**.
4. Under Currently installed programs, select **AGFA IMPAX AS300**.
5. Click **Change**.
6. At the prompt, type your name and click **Next**.
7. At the Welcome dialog, select **Modify**. Click **Next**.
8. Clear the checkboxes of all AS300 packages other than **MVFCore**, **MVFCurator**, and **MVFcdexport**.
9. Click **Next**.
10. In the Maintenance Complete dialog, select **Yes, I want to restart my computer now** and click **Finish**.

11. If no longer required on this server, you can also delete any Server license files stored in the C:\mvf directory.

Uninstalling Oracle on Windows

1. Delete the MVF, or mvf_ora, System Data Source Name (DSN).
2. Select **Start** > **Oracle - ohome > Oracle Installation Products** > **Universal Installer**.
3. Click **Deinstall Products**.
4. Select **ohome** and click **Remove**.
5. Confirm the removal by clicking **Yes**.
6. When the uninstall is complete, to exit out of the Oracle Universal Installer, click **Close**, then **Cancel**.
7. Reboot the server.
8. If the Distributed Transaction Coordinator Service is running, stop it.
9. If the following directories exist, delete them.
10. Run regedit and delete the **HKEY_LOCAL_MACHINE\SOFTWARE\ORACLE** key.
11. Delete all files in the C:\cygwin\tmp directory.
12. Delete all files in C:\cygwin\var\tmp directory.
13. Delete the **C:\installOracleInfo** file.
14. 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**.

Creating a web cache volume

1. On the Database Server, log into the Administration Tools.
2. Click **Cache Manager**. 
3. Click **New Cache Volume**. 
4. Select **Web Cache**.
5. From the Station list, select the station where the master curator is installed.
6. In the Path field, type the path for the new cache volume.
7. Click **Add**.
8. In the Warning dialog, verify that the path is correct and click **Yes**.

Configuring cache folder permissions for remote caches and NAS

1. On the 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 root user) directory.
3. To obtain the password for the ImpaxServerUser, type

   passkey -M QUERY -u ImpaxServerUser (AS300) or **./passkey -M QUERY -u ImpaxServerUser**(AS3000)
4. If the remote web cache is hosted on a Windows-based system, log into the machine as an administrator-level user. Using the built-in Windows 2003 Server security configuration, create an account for the ImpaxServerUser that uses the same password as the account on the Database Server.

   If the web cache is hosted on a Solaris-based system, install and configure a subprocess such as NFS or SAMBA.
5. If an ImpaxServerUser account cannot be used on the remote cache but rather a domain user needs to be used, create the domain user and add this user to the ImpaxServerGroup on the IMPAX machines

requiring access (for example, the Curator). Update the IMPAX services to log in as this new domain user.

Configuring web cache folder permissions

1. On the Windows 2003 server hosting the cache, open Windows Explorer.
2. Navigate to the location of the cache.
3. Right-click the cache folder and select **Sharing and Security**.
4. Select **Share this folder**.
5. Type an appropriate Share name.
6. Click **Permissions**.
7. Select **Everyone**, then click **Remove**.
8. Click **Add**.
9. In the field for object names, type **Administrators; ImpaxServerGroup**, then click **Check Names**.
10. If the names are not found, click **Advanced**, then click **Find Now**. Select the **Administrators** and **ImpaxServerGroup** accounts and click **OK**.
11. To close the Select Users or Groups dialog, click **OK**.
12. In the Permissions for *share_name* dialog, to give each user full read, write, and execute access to the cache volume folder, select each user and select **Full Control**.
13. Close the permissions and properties dialogs.

To configure web cache folder permissions on Windows Server 2008

1. On the Windows 2008 server hosting the cache, open Windows Explorer.
2. Navigate to the location of the cache.
3. Right-click the cache folder and select **Properties**.
4. Switch to the **Sharing** tab.
5. Click **Advanced Sharing**.
6. Select **Share this folder**.
7. Type an appropriate Share name.
8. Click **Permissions**.
9. Select **Everyone**, then click **Remove**.
10. Click **Add**.
11. In the field for object names, type **Administrators; ImpaxServerUser**, then click **Check Names**.
12. If the names are not found, click **Advanced**, then click **Find Now**. Select the **Administrators** and **ImpaxServerUser** accounts and click **OK**.
13. To close the Select Users or Groups dialog, click **OK**.
14. In the Permissions for *share_name* dialog, to give each user full read, write, and execute access to the cache volume folder, select each user and select **Full Control**.
15. Close the permissions and properties dialogs.

Preparing studies within a date range

1. To store all study_refs into variable *a*, in CLUI, type

   save_refs a select study_ref from dosr_study where study_date >= '*start_date*' and study_date <= '*end_date*'

2. To enter menu mode, type **Go menu**.
3. Select **1** for Study Manager.
4. Select **5** for Prepare Study.
5. At the prompt for the list of studies to process, enter **a** to reference the save_refs list of studies.

Preparing studies based on a list of study references

1. In CLUI, specify the files to prepare with this command:

   study prepare *study_ref_1 study_ref_2 ... study_ref_n*

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)

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

Changing the SQL Server administrator (sa) password

1. On an IMPAX Database Server, log in using the AgfaService account.
2. Open a command prompt.
3. Change to the **C:\mvf\bin** directory.
4. To find out what the current sa password is, type

   passkey -M QUERY -u sa -r c:\mvf\mvf.psd

5. To update the password, type

sqlcmd -U sa -P *password* -d master -Q "*sp_password* '*old_password*', '*new_password*', 'sa'"

6. To log out, type **exit**.

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

Manually uninstalling the IMPAX 5.2 or 5.3 Client software

1. Open Control Panel.
2. On Windows 2003 servers, select **Add or Remove Programs**. On Windows 2008 servers, select **Programs and Features**.
3. On Windows 2003 servers, under Currently installed programs, select **IMPAX Client ES** and click **Remove**.

   or

   On Windows 2008 servers, select **IMPAX Client ES** and click **Uninstall**.
4. At the `Are you sure you want to remove this program?` prompt, click **Yes**.
5. If a Files Not Removed dialog opens, to remove the remaining files, click **Yes**.
6. At the Uninstall Successful message, click **OK**.
7. Restart the computer.
8. After the computer has restarted, verify that the C:\mvf directory has been deleted. If the directory is still present, delete it.

Removing the IMPAX 5.2 or 5.3 Client Knowledge Base

1. Open Control Panel.

2. On Windows 2003 servers, select **Add or Remove Programs**.

   or

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

3. On Windows 2003 servers, select **IMPAX Client Knowledge Base 5.2** or **IMPAX Client Knowledge Base 5.3** and click **Change/Remove**.

   or

   On Windows 2008 servers, select **IMPAX Client Knowledge Base 5.2** or **IMPAX Client Knowledge Base 5.3** and click **Uninstall**.

4. In the Confirmation dialog, click **OK**.
5. If also uninstalling the IMPAX Server Knowledge Base, in the Maintenance Complete dialog, select **No, I will restart my computer later**. Otherwise, select **Yes, I want to restart my computer now** and click **Finish**.
6. If you restarted the computer, log into Windows as an administrator-level user.
7. To remove any translations of the IMPAX 5.2 or 5.3 Client Knowledge Base, delete the **C:/impax/documents/client/translations** directory.

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.

Installing the mvf license key on a Windows server

1. Match up the correct license key with the machine's MAC address.
2. Open Windows Explorer.
3. Copy the license key file to **C:\mvf**.
4. Rename the license key file to **mvf.lic**.

Installing the archive license key on a Windows server

1. Match up the correct license key with the server's MAC address.
2. Open Windows Explorer.
3. Copy the archive license key to the C:\mvf directory.
4. Rename the license key to **mvfarch.lic**.

Testing the installed software

1. Ensure that the user migration was successful.
   a. On the Application Server, if Windows 2003 is the operating system, select **Start** > **All Programs** > **ADAM** and select **ADAM ADSI Edit**

      or

      On the Application Server, if Windows 2008 is the operating system, open the Windows Administrative Tools and select **ADSI Edit**.

   b. On Windows 2003, right-click **ADAM ADSI Edit** and select **Connect To**. On Windows 2008, right-click **ADSI Edit** and select **Connect To**.
   c. On the Connection Settings screen, fill in the values as shown in the following illustration.
   d. To close the Connection Settings dialog, click **OK**.
   e. Expand **application server node**.
   f. Expand **distinguished name**.
   g. Select **CN=users**.
   h. Verify that the list of original IMPAX 5.2 or 5.3 migrated users is displayed.
2. Ensure that you can log into the IMPAX 6.5.1 software.

a. On the IMPAX Database Server, run the Administration Tools and ensure that you can log in using the administration password.

b. On the Application Server, open a web browser and connect to http://localhost. Ensure that the "Welcome to IMPAX" page is displayed.

c. Run the IMPAX Client and ensure that you can log in using the administration password.

3. Test the status of Web Services by running a Healthcheck.

   a. Open a web browser and navigate to **http://*application_server_name*/AgfaHC.Healthcheck.Escrow/AuthenticationForm.aspx**.

   b. Log in with the administrator user and 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.

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 computer where the 5.2 or 5.3 Cross-Cluster Dictation Interlock components were copied, open the Windows Administrative Tools and select **Services**.
2. Right-click the **MVF Signal Relay** service and select **Stop**.
3. Close the Services window by selecting **File** > **Exit**.
4. Open a command prompt.
5. Change to the **C:\mvf\bin** directory.
6. Type

   mvf_signal_relay.exe -remove
7. Type **clui**.
8. In CLUI, type

   delete from map_ini where ini_section='signal-relay'
9. Exit CLUI by typing **exit**.
10. In Windows Explorer, navigate to C:\mvf\bin and delete the **mvf_signal_relay.exe** and the **install_relay-signal.bat** files.
11. Optionally, you can delete the **signal-relay** and **sig-relay-train** users from the IMPAX 5.2 or 5.3 Service Tools User Manager.
12. On the IMPAX 6.5.1 Application Server where the 6.5.1 Cross-Cluster Dictation Interlock components were copied, open the Windows Administrative Tools and select **Services**.
13. Right-click the **Impax Study Status Relay** service and select **Stop**.
14. Close the Services window by selecting **File** > **Exit**.
15. Open a command prompt.
16. Change to the directory containing the Cross-Cluster Dictation Interlock components—possibly C:\Program Files\Agfa\Impax Business Services.
17. Type

    uninstall_study_status_relay_service.bat.
18. Close the command prompt by typing **exit**.
19. From Windows Explorer, navigate to and delete the **study-status-signal-relay** folder (possibly from C:\Program Files\Agfa\Impax Business Service).
20. Log into an IMPAX 6.5.1 Client as an administrator user.
21. 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.

Stopping the exhibitSyncNotifier service

1. On the AS300 server, navigate to C:\mvf\sync\bin.
2. Double-click **stopExhbitSyncNotifier.bat**.

Uninstalling Data Currency from an AS300 server

1. Open the Windows Administrative Tools and select **Services**.
2. Locate the **Exhibit PACS Synchronization Notifier** service and stop it.
3. Exit from the Administrative Tools.
4. In Windows Explorer, navigate to the C:\mvf\sync\bin directory.
5. Run **removeSystemDate.bat**.
6. Run **removeJobQueue.bat**.
7. Run **removeSync.bat**.
8. Open Control Panel.
9. Select **Add or Remove Programs**.
10. Under Currently installed programs, select **PACS Synchronization *version***
11. Click **Change/Remove**.
12. When prompted to confirm the removal, click **Yes**.

Removing Client queues from Job Manager

1. Retrieve the AE_REF of each cached 5.2 or 5.3 Client station. In CLUI, type

   select ae_ref from map_ae where ae_title = '*DISPLAY_STATION_AE*'
2. Generate a list of cache volumes for that AE. Type

   select * from osr_volume where volume_type = 'C' and ae_ref = *ae_ref_from_step_1*
3. To check if any images exist in those caches, type

   select count(*) from osr_location where volume_ref in (*list_of_volume_refs_from_step_2*)
4. If the count in step 3 is greater than 0, to check that those images exist elsewhere in the system, type

   select location_ref from osr_location ol1 where volume_ref in (*list_of_volume_refs_from_step_2*)

   To check that the images do not exist elsewhere in the system, type

   select location_ref from osr_location ol2 where ol1.object_ref = ol2.object_ref and ol2.volume_ref not in (*list_of_volume_refs_from_step_2*)
5. If images exist elsewhere in the system, delete them from this cache. Type

   update osr_location set visible = 'F' where volume_ref in (*list_of_volume_refs_from_step_2*)
6. Signal the Autopilot and wait until it finishes. Type

   signal WAKE_AUTOPILOT 0 AUTOPILOT
7. Repeat the query in step 3 and once it returns zero, delete the caches. Type

cache remove *volume_ref*

8. Delete the services running on this AE. Type

   go service

   query

   delete *service_refs_for_AE_title*