Installation on HA System

The following instructions describe how to install KeyesFax on a second computer for High Availability or Disaster Recovery, using third party replication software.

___ Step 01   Sign on as a Security Officer

The following installation procedure will require that you have enough authority to be able to create subsystems, communication controllers and devices.

___ Step 02   Install KeyesFax on the HA System

You may copy or replicate the KeyesFax libraries from the Production Machine to a High Availability (HA) system, using any method that you prefer. Once this has been done, you must install KeyesFax on the HA system. This is done by running both the CRTFAXSBS and CRTFAXCOM commands. These commands will recreate some of the necessary objects and connect the fax communication lines to the appropriate hardware resources on the HA system.

It is recommended that you simply follow our "*How to Transfer to a different System*" instructions, found on our website, for doing the installation on the HA system.

___ Step 03   Objects that you DO NOT want to Replicate

It is important that your High Availability software DOES NOT replicate some of the data areas, that are located in the KeyesFax libraries. These data areas are specific to each computer, and may not function properly if replicated.

- The **KFLICENSE** data area located in KFLIB should not be replicated. This data area contains the license number for each specific computer and logical partition.
- The **KFDATAx** (where x can be a number from 1 to 24) data areas located in KFLIB should not be replicated. These data areas contain setup information for each fax line that are unique for each computer.

___ Step 04   Preventing "In Use" Error Messages

High Availability replication software will periodically retrieve a member list for each of the files that are being replicated. When this happens, the files will be temporarily locked. Because KeyesFax runs constantly, creating and sending faxes, you can periodically get "In Use" errors - on the Production Machine. When this happens, you should attempt to answer the error messages with an "**R**" for Retry.

You can do 2 things to minimize the number of occurrences of these "In Use" errors.

1. Keep the Fax Queue from exceeding 10,000 faxes.

   When the replication software retrieves a member list, the number of members in the file will determine how long this takes. From experience we have determined that when you keep the number of faxes trimmed down below 10,000 entries, the system will work much better.

   You should regularly use the purge command (PURGEFAXQ or item 33 from KFMENU) to keep the Fax Queue purged.

2. You should use the IBM CHGPF command to change each of the fax files to have a "Maximum file wait time" of 120 seconds.

   Increasing the time to greater than 120 seconds is not necessary.

   There are three different fax files in KFLIB library that you should change:

   - SPLFILE contains standard SCS printer data.
   - PCLFILE contains USERASCII printer data.
   - OUTFILE contains converted Fax images.

Testing or Activating KeyesFax on the HA System

If all the previous steps have been completed and the replication software has been running, you are now ready to switch over to the HA system for testing or for activating in any emergency.

___ Step 05 Enter a Temporary KeyesFax License number

The KeyesFax system can be replicated on any system, without a current license number. In order to use the software on the HA system, however, you will need to install a license number. Computer Keyes can supply you with temporary license numbers, for testing up to 3 times a year - or for actual emergencies, at no charge.

To obtain a Temporary license number, contact Computer Keyes. Be sure to supply the serial number of the HA system, the logical partition number that you will be running it in, and the Version number of KeyesFax. You can obtain the version number using the KFVERSION command. The KFLICENSE command described below will tell you what the serial number and logical partition numbers are.

1. Switch your current library to your KeyesFax Program library, usually called KFLIB.

    Enter: CHGCURLIB KFLIB

2. Start up the program that will record your KF License.

    Enter: KFLICENSE

3. Key your KF License number in the field provided, then press **Enter**.

___ Step 06 Starting the Fax Lines

Starting the KeyesFax lines will activate the entire system and start processing spooled files from the FAXCOM output queue.

1. Start item 1 *Work with Fax Lines* from the Fax Communication menu (FCMENU).

2. Use option 1 to start each fax line.

3. Watch the Status field, using **F5** (Refresh) periodically. If the system is functioning properly, the status of each fax line should change from STR to RDY or SND within 15 to 20 seconds.

End of HA Activation

This concludes the HA testing or activation. If you have not been able to complete these instructions, please contact Computer Keyes for assistance. We would be happy to help you.

Computer Keyes Technical Support
Toll free: (800) 356-0203 US & Canada Only
Voice: (425) 776-6443 Fax: (425) 776-7210
E-mail: support@ckeyes.com