

## Appendix F – Migrating Retain to a new Server or Platform

Migrating Retain between different platforms is possible, though time consuming. Retain can also be migrated between 32-bit and 64-bit systems. Migrating or moving the Retain Server can be complicated, because the different Retain components that connect to the Retain server by IP address, file paths mapped in the system, and the unique server identification which allows access to the data storage are all tied to the original Retain Server. The important variables for the Retain Server are found in the ASConfig.cfg file. The connecting components will need new bootstrap files. In a migration, all these variables must either be corrected, or copied to the new system for the migration to be a success.

There are **no guarantees** when migrating a server. **BE SURE TO CREATE A FULL BACKUP WHEREVER POSSIBLE BEFORE STARTING THE PROCEDURE.** SQL databases and data storage systems are not supported or administered by GWAVA Inc., and are the responsibility of the local system administrator and the customer.

Regardless of the source and destination platform, the main steps will be the same. The steps for migrating a Retain Server are:

1. Create a backup of the server, data store, and database.
2. IF the SQL database is housed on the source Retain Server, copy or migrate the SQL database to its final destination in accordance with recommended practices for the respective SQL system. Setup the SQL server and get it running on the destination machine.
3. Download and install Retain. After Retain has been installed, shutdown Tomcat.
4. Copy the data store to the new destination. The data store consists of more than just the storage directory. The data store contains the configuration database, indexes, backups, license, and the archive, (if not on a SAN). If migrating to Linux, the ownership and execute rights to the data store **MUST** be changed. If ownership execute rights are not set correctly, the Retain Server will not function correctly, and will generate inexplicable errors. Commands are:  
chown -R tomcat:www <storage\_directory>  
chmod -R u+rwx <storage\_directory>/\*
5. Open the ASConfig.cfg file from the old server with the text editor of choice. (Text editor must be able to view .xml files.) The following file paths which were mapped for the original server must be corrected for the new server:

```
<basePath>/retain</basePath>  
<archivePath>/retain/storage</archivePath>  
<xmlPath>/retain/xml</xmlPath>  
<indexPath>/retain/index</indexPath>  
<backupPath>/retain/backup</backupPath>  
<licensePath>/retain/license</licensePath>  
<EBDBPath>/retain/ebdb</EBDBPath>
```

Ie. If migrating from Windows to Linux, the <basePath> would need to be changed from:  
<basePath>C:\retain</basePath> to <basePath>/retain</basePath>

6. When the ASConfig.cfg file has been modified correctly, copy the modified file into the destination server. `../RetainServer/WEB-INF/cfg`  
Once the file has been copied into the new server, start Tomcat.
7. Verify that the RetainServer is working. If it is not working, view errors and double-check the settings in the ASConfig.cfg file.
8. IF the final destination server has a different IP address than the original RetainServer had, all workers and stubbing servers must be reconfigured by re-uploading new bootstrap files for each one. If this step is not completed, the workers and stubbing server will not have contact with the Retain Server, and will not be able to function. See '[correcting the bootstrap](#)' in the worker section.

The process should be done with extreme care and attention to detail, if not under the supervision and by the guidance of Retain Support. Completing ALL steps for your system is extremely important. If there is a problem call support and/or revert to the backup made in step one. Correctly following these steps will result in a fully functioning system on a new platform.