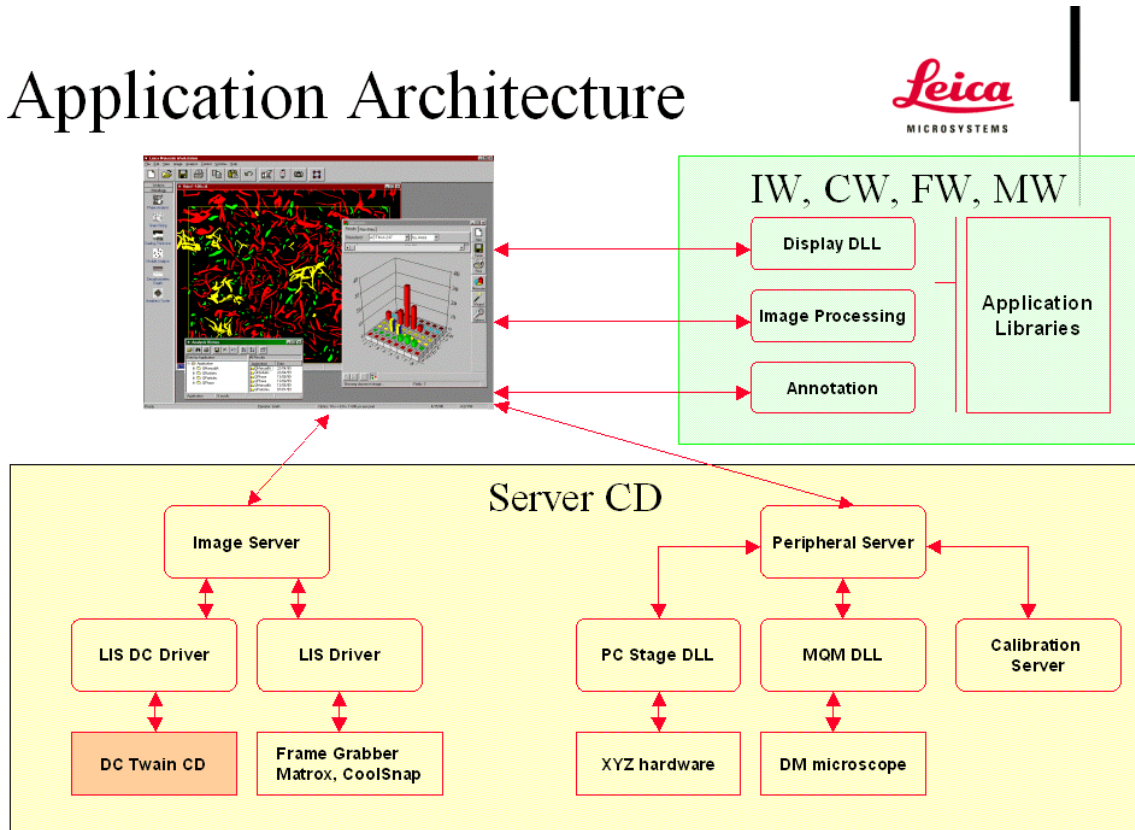


# Installing BU-IS Software

As you are aware the BU-IS application software (FW, IW, MW and CW) interfaces to the imaging hardware (cameras, frame grabbers, microscopes, stages) via software that we supply on the 'Leica Server CD'. The following diagram explains how these are organised as software modules.

## Application Architecture



The testing of this Server CD is very complex as it has to be checked with multiple applications, operating systems, cameras etc. We even have to test all the different PCs and graphics boards. As you can see this is a very demanding and time-consuming task and it occupies 2 engineers at Cambridge full-time - One writing the software and the second in testing.

In addition we rely on software produced by our colleagues at CM (for the microscope DM SDK) and SM (for the DC Twain camera software).

Many of the items that have to be tested for compatibility are outside our control and can change during the testing process. To give examples:

- The frame grabber becomes obsolete and the manufacturer has not given advanced warning.
- We discover bugs in the non-BU-IS software that are not apparent in normal use but which cause our applications to fail.
- New microscopes and cameras are launched.

In this 'shifting sands' scenario we have to take a pragmatic approach that requires us to complete our testing with specified and very specific versions of hardware and software. There is simply no choice over this because new versions of software can appear the day after we complete testing - we would never finish.

So what we have to do is to add to our server CD a single 'consistent' set of software and drivers. If an updated version of software appears from an external source this may or may not work with the released server CD. The assumption should be that it will NOT work.

Clearly we rely closely on software from SM and CM because we need to support the DC cameras and CM microscopes. We have communication with our colleagues and try hard to synchronise releases of software. However we are still independent BUs and it is not always possible to meet identical release dates.

For this reason I would urge that very great care is taken in installing BU-IS server software and the following guidelines I hope will be of assistance:

- a) On every server CD there is a file called 'release notes'. This details the compatibility of the software on the server CD. In other words which operating systems, SDK, DC Twain is supported. And any other restrictions concerning the PC performance etc. Please read this document before installing any software.
- b) On the server CD we include the DM SDK software version that is compatible with the server software. Although a later version may well have been shipped with your microscope, the version on the server CD is to be installed. If you have the newer version installed, you need to uninstall it.
- c) The DC Twain version that is compatible with the server CD is also not the version shipped with the cameras. The release notes specify exactly which version to use. We can supply the correct version on request if you do not have it.
- d) For the moment LIS software is compatible only with W2000. (And not XP as stated for the DC cameras)

For your information concerning future releases of server CD we are nearing the completion of testing of server V2.2. This will be compatible with DM SDK 4.14 and a new DC Twain, the compatible versions of both will be on the server CD.

For "special" projects, we take a 'snapshot' of the software versions that were current at the time of development. We do not have the resources to continually retest software that is used in small quantities. Hence the rule to install the latest server CD does not apply for specials and no changes should be made without consultation with BU-IS.

Full information about PC specs, software versions etc are on the intranet and the configurator. If you need assistance with any of these please contact my colleagues in support for technical issues and marketing for queries. If in doubt ask me and I will be happy to forward to the appropriate expert.

I hope that these notes are of assistance and I will be pleased to offer further clarification if required.

Many thanks for your patience and understanding on this matter.

Best regards  
Geoff Jenkinson