

## Jobs, Configurations and Co-ordinate Systems (cont)...

This newsletter continues from Newsletter No. 8.

### With Existing Jobs

The co-ordinate system attached to an existing job can be changed in exactly the same two ways as for new jobs. However, first ensure the existing job is the active job and then change the attached co-ordinate system as described in newsletter No. 8.

It is also important to understand that the co-ordinate system attached to any job will always over-ride the currently active co-ordinate system as defined in the active config set. To understand this, try the following.

1. Create a job and attach a co-ordinate system called **A**. Create a second job and attach a different co-ordinate system called **B**.
2. Now access the **SURVEY\ Begin** panel and highlight the **Job** line. Toggle with the left and right buttons between the first and second job and see how the **Coord Sys** changes between **A** and **B**.



When you now press **F1 CONT**, the co-ordinate system that is attached to the chosen job will automatically become the active co-ordinate system.

This is why when you are working with more than one job and each job has a different co-ordinate system attached, the co-ordinate system defined within the active config set will change.

Additionally, the co-ordinate system attached to a job is an integral part of that job, i.e. the attached co-ordinate system is part of the **job database structure** itself. To prove this, try the following.

1. Create a job and attach a co-ordinate system to that job. Remove the PC card.
2. Access the **CONFIGURE\ Position** panel and delete that co-ordinate system from the sensor.
3. Put the PC card back in the sensor and select the same job.
4. Return to the **CONFIGURE\ Position** panel. The deleted co-ordinate system has returned.

When you select a job to be the currently active job, the job database structure is read to see what co-ordinate system is attached to that job. If that co-ordinate system does not currently exist on the sensor, it is automatically copied to the sensor from the job. That co-ordinate system will then also automatically become the active co-ordinate system.

### Transferring Co-ordinate Systems between Sensors

Co-ordinate systems can be transferred between sensors using the PC card. This means a co-ordinate system needs only to be computed on one sensor and can then be copied to other sensors needing to use the same co-ordinate system.

From the main menu choose **7 Transfer** and then **03 Co-ordinate System**.



Select the co-ordinate systems you wish to transfer from the sensor to the PC card. Insert the PC card into the next sensor and repeat the operation in reverse.

Having read the paragraphs above, you may now have also realised it is possible to transfer co-ordinate systems between sensors by using jobs. Attach the co-ordinate system to be transferred to a job and then put the PC card into the next sensor and select that job. The attached co-ordinate system will automatically be transferred to the second sensor!

### Remember...

- Surveyed points are always stored as **Geodetic WGS84** co-ordinates.
- One co-ordinate system is always active.
- One job is always active and always has only one co-ordinate system attached to that job.
- The co-ordinate system attached to a job can be changed.
- Co-ordinate systems attached to jobs over-ride the active co-ordinate system as defined in the config set.
- Co-ordinate systems can be transferred between sensor.

