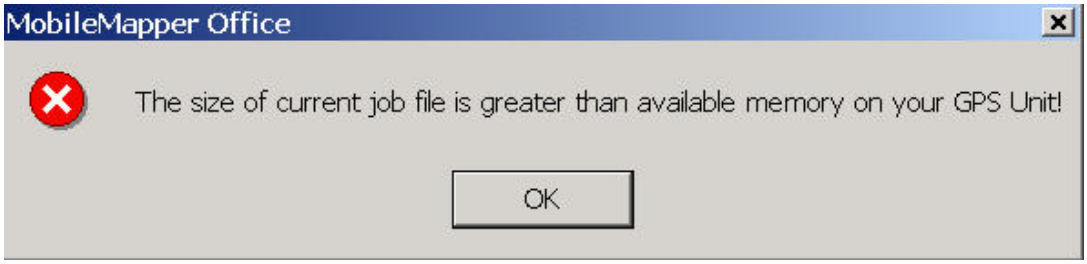
THALES

MobileMapper

Application Note: Uploading Large MobileMapper Job Files to the Receiver

Introduction

Thales Navigation has received a number of calls from MobileMapper customers about a problem they occasionally encounter when importing large GIS files (SHP, MIF or DXF) into MobileMapper Office and then attempting to upload them as job files into the receiver. The error message reads:



Why do I get this message even when the size of the job file is smaller than the free memory on my SD card?

Some jobs require too much RAM space for the receiver to both display and edit - even if you could copy the unopened job file to the SD card. MobileMapper Office checks each job file you wish to copy to the receiver and returns this message when it determines that the job will require more RAM memory than is in the receiver.

What should I do if my job file requires too much RAM memory to update in the field?

The first thing you should consider if you see the above warning message is to upload a subset of the job - called a "job region" - into the receiver. You do this in MobileMapper Office by opening the job and clicking on **Tools**>**Create Region**. Then use your mouse to mark out a rectangle on the map display and highlight it by right clicking on the region. Then click on **File>Upload to GPS** and name the region.

With the job region highlighted, you can also click on **File>Save Job Region** to save the region as a new job file while leaving it as part of the original job file. You can alternatively click on **File>Cut Job Region** to cut the highlighted region out of the original job file and save it to a new job file. This allows you to cut a large job into

several regions that individual field workers can update. When they download their jobs at the end of the day, you can open the original job and import all the updated job regions. Because cutting a job region includes all the line and area features that are only partially located in the region and cuts them out of the original job, you do not have to worry about two regions containing portions of the same feature. This makes it impossible for two workers to update the same line or area feature.

What else can I do to reduce the amount of memory in a job?

When importing GIS files into a MobileMapper job, it is best to take into the field the smallest amount of data that is required to get the job done. This can be achieved in the following ways:

- *Remove any feature layers that you will not update in the field*
  When you import any SHP or MIF file into a MobileMapper job, the feature and attribute schema is automatically converted into a MobileMapper feature library. But you still have the ability to control how much of the schema is converted by importing just those layers you need to update in the field.
- *Remove any attributes you will not update for any included feature layer*
  In the **Import GIS Data** dialog box, uncheck any feature attributes that you do not need to edit in the field.
- *Put layers you will not edit into a background map*
  If you would like to use some feature layers in the field for navigation and orientation, but do not plan to update their attributes or locations, you can import them into a background map by clicking on **Tools > Background Maps**. MobileMapper Office's map screen will display the GIS layers you imported into the job superimposed over the layers you imported into the background map. Upload the job file (**File > Upload to GPS > Job**) and then the background map (**File > Upload to GPS > Background Map**).

Are there any size limits when uploading GIS files into background maps?

The size of GIS files that can be imported into MobileMapper background maps and then uploaded to the receiver is limited only by the amount of memory remaining on the receiver's SD card. If there is insufficient memory on the SD card to store the background map, you have the option to create a background map region in the same fashion as you create a job region.