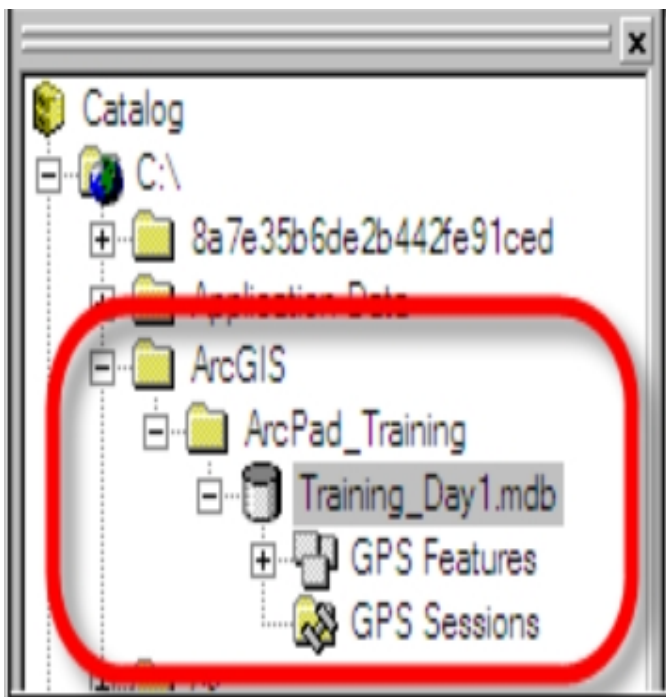


The Trimble GPS Analyst extension allows you to

- 1.
- 1.

**1. Store GPS data in the GDB**

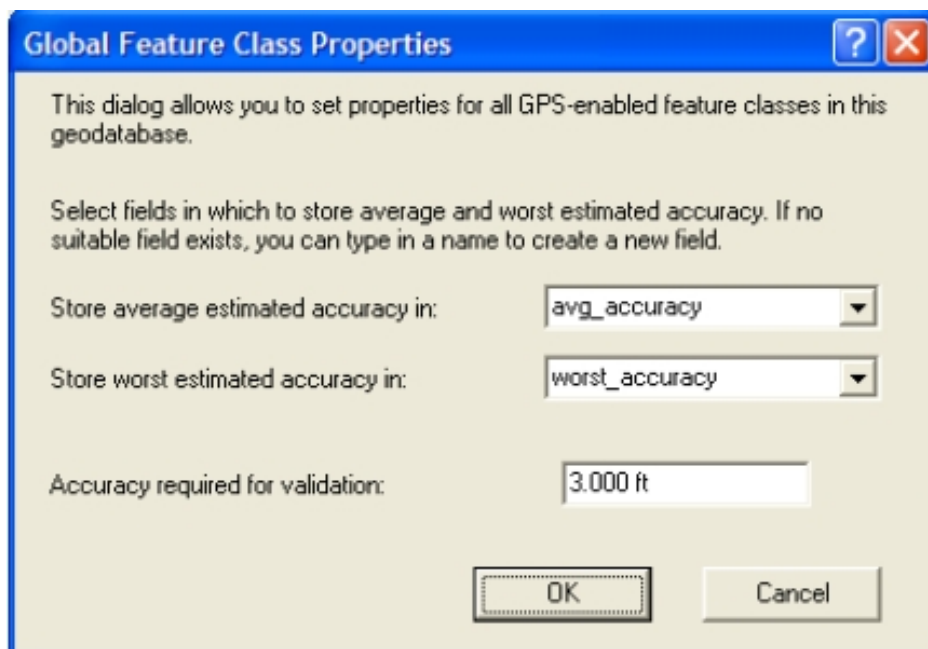


Your GPS data is added to your GIS as feature classes. The Trimble GPS Analyst Extension also allows you to store the actual GPS-collected positions that make up those features in the GDB. The data is stored in the GPS Sessions folder.

## 2. Estimating accuracy values

GPS Analyst estimates accuracy values **for the GPS positions** that make up each feature. These estimated accuracy values are based on indicators of GPS quality such as PDOP and the proximity and type of base station(s) used to correct the data. These values are stored in the GPS Session folder and can be used to edit features vertex-by-vertex.

GPS Analyst also estimates accuracy values **for each feature itself**. For line and polygon features that are made up of several vertices, the estimated accuracy is represented in two ways -



Whenever a new feature class is created, the value of the average estimated accuracy of all

Since a point feature consists of only one vertex, the worst estimated accuracy and the average estimated accuracy are always the same. The average and worst estimated accuracy values are stored as attributes in the feature class table for GPS-enabled feature classes. These values can be used for decision-making when editing features within a feature class.

### 3. Validating features

During validation, GPS Analyst compares the worst estimated accuracy of features against the required accuracy you specified for each feature class. The degree of accuracy you set will depend on the type of feature collected and the purpose of the information. For example, underground cable features that maintenance crews will need to locate and repair require better accuracy than signpost features that are clearly identifiable. Those features that do not meet the required accuracy will be flagged as such.

Status	Excep...	Feature	Description	Required	Worst	Average
Insufficient accur...	No	Tree 1	Deciduous	5.000 m	10.335 m	10.335 m
Insufficient accur...	No	Sidewalk 1	Concrete	5.000 m	6.823 m	4.563 m

#### 4. Rebuilding features

Should your accuracy requirements change, you can always change the required accuracies. The features can be validated again and rebuilt to meet these new standards.