The main tool used by the data administrator for the maintenance of the GDADS database is the Database Manager (Sections "Database Manager User Interface" to "Adding 'Country' and 'Map Sheet' Records"). Two other interfaces, Map Display and List Display, allow the user to view and query the database contents (below).

Map Display User Interface

GDADS default user interface is its Map Display. In order to return to Map Display at any time, click the **Map Display** button on the lower right of the interface.

Map Display is a map view of the surveys stored in the GDADS database, together with one of a series of standard map sheets, and overlain with a 'country' outline. Surveys are rendered onto the display as filled polygons. The interface allows a survey (or a map sheet) to be selected, and to query the properties of the selected object. There are a number of display controls, such as zooming in & out, panning, and reset. A database button opens a dialog box which is used to control the contents of the display—which tables of the database are displayed. Map Display's controls are briefly documented in the following list.

Note that there is a different version of Map Display in the GDADS Front-Office. In the Front-Office the aim is to provide a simple and highly intuitive interface for a GDADS customer-user, with no data administrative capability. See "Map Display User Interface" for a detailed description of the Front-Office Map Display.



- 1 Main map display panel. Use the database button (2) to change the display contents
- **2** Database button. Opens the dialog box used to manage the contents of the map display
- **3** Mouse modes: Zoom In
- 4 Mouse mode: Zoom Out
- **5** Mouse mode: Zoom to Extents
- 6 Mouse mode: Pan
- 7 Mouse mode: Select

Drag & Drop Panels

Using the mouse, select a map object from the list, then drag, and drop it on a chosen panel.

- 8 Drag & Drop Panel: (i) = Information. Displays the database's metadata for the selected object. Drag a survey, and drop it onto this panel to view the survey's main specifications.
- 9 Drag & Drop Panel: Image View. Drag a survey, and drop it onto this panel to view the survey's main ('for sale') image datasets. This image view is made available in the Back-Office, but is primarily designed as the Front-Office Image View tool, for use by GDADS customer-users. See "Image View (GDADS Front-Office) (D09)" for details. Note that from Image View, the Purchase Data wizard can be started, but it could fail unless all of the commercial details (for example, prices for products) are correctly set up in the configuration file. These details are normally set up in the Front-Office version of the configuration file.
- **10** GDADS (Back-Office) Main Functions Buttons. Allows the user to navigate to each of GDADS' different GUI interfaces which provide its four primary (Back-Office) functions.
- **11** Status Panels: Latitude & Longitude feedback from current mouse position in the map panel.

List Display User Interface

An alternative view of the GDADS database is presented in the List Display. As with Map Display, the user can query the database for information about the listed surveys. Click the **List Display** button on the lower right of the interface to open this tool. All surveys are simply listed, using a thumbnail graphic, which shows each survey's boundary outline. Like Map Display, this function is not extensively used in the Back-Office, and is only briefly described.



- 1 Main list display panel, listing the surveys in the GDADS database.
- 2 Menu Item: File
- **3** Menu Item: Options
- 4 Database button. Opens the dialog box used to manage the display list

Drag & Drop Panels

Using the mouse, select a map object from the list, then drag, and drop it on a chosen panel.

- 5 Drag & Drop Panel: (i) = Information. Displays the database's metadata for the selected object. Drag a survey, and drop it onto this panel to view the survey's main specifications.
- **6** GDADS (Back-Office) Main Functions Buttons. Allows the user to navigate to each of GDADS' different GUI interfaces which provide its four primary (Back-Office) functions.
- 7 Status Panel.

Database Manager User Interface

The administrative tools needed to maintain the database are found in GDADS' Database Manager. The most common function is adding a new survey to the database (Section "Adding a New Survey"). This requires two tables to be updated—adding metadata to the SurveyInfo table, and the survey's boundary polygon to the Outlines table.

As noted in Section "Tables in the GDADS Database" in GDADS database (D03), the GDADS database has several other tables, such as a 'country' table, and a series of tables for each of standard map sheets scales. Typically these tables are set up once, and need no further updating or editing. The process is done through the Database Manager (see "Adding 'Country' and 'Map Sheet' Records"). This initial setup is often part of the customisation provided by Intrepid Geophysics.



Click the **Database Manager** button in the lower right of the interface, then click the 'database' button (<a>[]), and load the GDADS database.

1	2 3 4	5
1	Geo-Science Data Archive and Distribution System	
\	File Options	
	REGION OUTLINE	
	OUTLINES 100k new COUNTRY IMAGES 100k_odd 50k_new 250k SURVEYINFO 50k_odd	
	SURVEYINFO	
	surveyname WindyPlace ground_clearance 80	
	surveytitle WindyPlace Aeromaginary St. sampling_interval 5	
	year 2000 line_spacing 200	
	contractor AeroGecko tie_spacing 2500	
	confidential line_direction	
	magnetics V tie_direction 90	
	radiometrics mag_sensor_type SingleSensor	
	emfull256	
	gravity domain N/A	
		6
	I A A A A A A A A A A A A A A A A A A A	
	Add Entry Update Entry Remove Entry Detabase Managery	
	L Database Manager Archive Managers	7
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- 1 Main database field display panel. Select the 'tab' to display each of the useradministered tables.
- **2** Menu Item: File
- **3** Menu Item: Options
- 4 Database button. Opens the dialog box used to manage the display list
- 5 Region Outline (is not a Drag & Drop Panel—instead, click inside this panel). Opens the Region Outline Import Tool. This is an important database administrative tool, used in the initial setting up of map sheet tables of a GDADS database. Allows the GDADS data administrator to import an Arc shape file containing all of the map sheets for a given 'region' layer (for example, the 1:250k series). See "Adding Multiple Map Sheets" for details.
- **6** GDADS (Back-Office) Main Functions Buttons. Allows the user to navigate to each of GDADS' different GUI interfaces which provide its four primary (Back-Office) functions.
- 7 Status Panel.

Adding a New Survey

There are three components to data stored in GDADS:

- · Survey data—stored in a directory on the system's hard disk
- Survey description—specifications describing the survey, stored in the database
- Survey location—a survey boundary polygon, also stored in the database

These three components are linked together by a unique identifier, the **surveyname**. Thus every survey must first be assigned a unique survey name. A **surveyname** directory is created in GDADS **ONLINE** storage area, and all survey files are written into that directory. A new record is added to GDADS database, containing brief survey specifications for **surveyname**. A survey boundary polygon for **surveyname** is also added to the database. **Surveyname** is the key which GDADS uses to link the survey information and the location (boundary polygon) to actual data.

Checklist

- 1 Collate the survey data and its documentation
- **2** QC. Check data quality, completeness and detail of documentation (Store quality data)
- **3** Generate grids of all required 'for sale' products (** see note below—MUST be 'projected' grids)
- **4** GridMerge. Incorporate grids into country-wide (GridMerge) grid datasets (** see note below)
- **5** Store the data in directory **surveyname**, with 'for sale' products organised within subdirectories.
- **6** Generate a survey boundary polygon, in the specified Datum and Projection (* see note below)
- 7 Add the **surveyname** records to the metadata and boundary polygon tables of the GDADS database
- 8 Archive data
- **9** If non-confidential, copy data to the Front-Office computer system (for customeruser access)

* Important—Boundary Polygons use the specified Datum and Projection.

The configuration file, **Properties.txt** specifies a Datum and Projection for the GDADS database. That specified Projection would typically be 'GEODETIC'. GDADS performs all of its 'map display' interface operations based on this specified Datum and Projection, and so the country and map sheet polygons, and all survey boundary polygons, must be defined in that Datum and Projection.

** Important-Grid Files used by GDADS must be 'Projected'.

All grids that are used by GDADS (for visualisation) cannot be GEODETIC, but must be defined in terms of projected (real distance) coordinates (for example, UTM coordinates). The reason for this is that GDADS' Purchase Data wizard determines 'how much' data has been purchased on the basis of the 'area of a grid', and those areas must be defined in terms of some conventional unit of distance (rather than 'degrees' !). There are some implications regarding the Projection, units of distance, the survey line spacing (specified for each survey in the GDADS database) and the unit pricing for grids and line data (specified in the configuration file) which are documented in Section "Customising 'Products for Sale'" in Setting up the GDADS Front-Office (D06) and paragraph ("Commercial Requirements B" in Modifying the GDADS database design (D16))

In terms of 'quantity for sale', GDADS can only compute an area. Thus it knows (from the survey boundary polygon) the total area of grid data for sale, or, for a particular map sheet, GDADS can calculate the area of the intersection of a given survey with the specified map sheet. It has been noted elsewhere that a specific Datum and Projection must be defined for a GDADS database (specified in the configuration file, **Properties.txt**), and that all polygons used to define survey boundaries (and map sheet boundaries) must be generated in terms of that specified Datum and Projection. The specific Projection defines a unit of distance.

In brief, the grid files used by GDADS may be in any Datum and Projection, provided that the Projection is not GEODETIC, but is an actual 'projection' onto a flat plane. In fact, different grids may use a different Datum and Projection, provided that a consistent 'unit of distance' is implied by each of the projections. Thus, individual (small) survey grids might be gridded in various different UTM zones (different Projections). Large grids—especially the country-wide GridMerge grids might use, for example, an Albers Equal Area Projection.

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Gathering Required Information and Files

The process of loading a new survey into GDADS takes a few minutes. The preparation—to ensure that quality data are stored—may take much longer!

An important first step is to collate all data, and may include:

- Final data delivery file(s)
- Associated format description and contractor's detailed specifications (readme) files
- Final report (as hard copy, or preferably as a document file)
- Associated raw data files (diurnal records, for example)

Implicit in the collation of data is the process of checking for completeness. The data administrator would typically have a series of quality control procedures to examine the quality of the line data and gridded data delivered from the contractor or other data source. This quality control process is fundamental to ensure the success of the overall data management strategy which GDADS facilitates. (The old maxim 'garbage in, garbage out' applies).

During this collation and QC phase, the data administrator should note all of the details that will be required when adding a new record to the GDADS database, such as survey specifications.

INTREPID Data Import, Gridding and GridMerge

To provide the GDADS functions of image visualisation and delivery of data, GDADS uses the data processing tools of INTREPID. Thus:

- Geophysical line data: must be imported and stored as INTREPID (line) datasets.
- Survey gridded data (used for visualisation): must be in INTREPID (ERMapper) format

All grids used by GDADS must use 'projected' coordinates—the grids cannot be in the 'GEODETIC' (longitude and latitude) projection, but must be 'projected' onto some flat plane. See the boxed note above for more details.

The visualisation of individual surveys in GDADS uses the individual grids of each specific survey. However, when it comes to visualising the data for a selected map sheet area, there could be two or more surveys (or none!) covering that selected sheet. GDADS does not 'patch' together an image view of those individual surveys. Instead, it displays image data for the selected area by extracting a subset from a special country-wide merged grid which is prepared beforehand by the GDADS data administrator.

These special 'country-wide' merged grids must be prepared for each type of data that GDADS is required to display, such as magnetics, totalcount (radiometrics), potassium. It is recommended that high quality merged grids are prepared using INTREPID's GridMerge. Since the customer-user visualisation, and simple map-making use these merged grids, and the user can zoom in to view data in detail, it follows that the merged grids should retain all of the high resolution detail that exists in the best quality individual survey grids. Consequently, these merged grids could be very large grid files!

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Note that any (other) files can (also) be stored in a GDADS data archive. The INTREPID format files are required for GDADS to be able to 'show' the data, but any other files can be included in the archive as well. For example, you can include the original contractor's 'located data tape' format or a Geosoft database format.

Prepare a Survey Boundary File (Arc shape file format)

When adding a new survey to the GDADS database, a survey boundary polygon file will be needed. The required file is a standard Arc shape file, and must use the defined Datum and Projection specified for the given GDADS database. The shape file can be generated in any appropriate manner, such as digitising around a grid file in ArcView. One way of generating this boundary polygon file using INTREPID is described in "Creating a boundary polygon in GDADS (D17)". The importing of this shape file is described in Section "Adding the Survey Boundary to the Database ('Outlines' Table)".

Organising the Data Files in GDADS ONLINE Disk Storage

In order for GDADS to function effectively in terms of allowing data visualisation, and purchasing of data, it needs to know some details about:

- What types of data are available for viewing
- What the grid file names are for each of these types of data
- Where those grid files can be found
- Details about what grid and line datasets are available for sale

GDADS gets these details from the configuration file, **Properties.txt** (see "Software Configuration (Part2) Configuration File Properties.txt" in Installing GDADS (D02) and "GDADS Back-Office config file Properties.txt (D18)") and associated fields in the GDADS database (see "GDADS database (D03)" and "Modifying the GDADS database design (D16)"). These configuration details define a systematic subdirectory structure, and file naming and file location conventions, as documented here. Thus, an essential part of adding a new survey dataset into the GDADS environment is creating certain required grid data files, naming those files correctly, and organising them into a defined subdirectory structure.

The rules for this directory structure and naming conventions are best illustrated with an example. Assume a fairly typical collection of airborne geophysical datasets, containing the following types of data (for viewing, and for sale): magnetics, radiometrics, em and gravity. Assume also that the for sale products for each of these types can include line data and grids. Then:

• The configuration file, **Properties.txt**, would contain the following entries:

```
GDADS.properties.buydata.products = magnetics,radiometrics,em,gravity
GDADS.properties.buydata.products.labels = Magnetics,Radiometrics,EM,Gravity
GDADS.properties.buydata.flavours = Grids,LineData
GDADS.properties.buydata.addons.radiometrics.options =
default,potassium,uranium,
thorium,totalcount
```

Note: radiometric.options defines further radiometrics grids which may be visualised (and made into maps & GeoTiffs), and 'default' is a special case, allowing a ternary radiometric plot if potassium, uranium and thorium are all available.

• The GDADS database would have 'CheckBox' type entries for each of these four types of datasets.

250k 100k COUNTRY SURVEYINFO 50k OUTLINES MAGES					
SURVEYINFO					
surveyname Diamond_SE	ground_clearance 80				
surveytitle Diamond South East Survey	sampling_interval				
year 1995	line_spacing 200				
contractor TeslaNamib	tie_spacing 2500				
confidential	line_direction 0				
magnetics	tie_direction 90				
radiometrics 🔽	mag_sensor_type SingleSensor 💌				
em	full256				
gravity	domain N/A				

- The 'country-wide' grids (used for visualisation whenever the user selects a standard map sheet area rather than a specific survey) must be named **magnetics**, **potassium**, **uranium**, **thorium**, **totalcount** (the four radiometrics grids), **em** and **gravity**. These grids must be located in the GDADS **ONLINE** data directory.
- For each survey dataset, all data are collated into their specific **SurveyName** directory. Within each of those directories, the following subdirectory structure must be used (depending, of course, on exactly what types of data exist for a given survey, and whether both grid and line data are available):

```
ONLINE (GDADS Data Directory)

--- Survey1_Directory

---magnetics

| |---linedata

| \---grids

| |---linedata

| \---grids

| |---grids

| |---...
```

- Within the **linedata** sub-directories will be the line data, stored as INTREPID line datasets.
- Within the **magnetics** \ **grids** subdirectory will be the magnetics grid, named **magnetics**. There will typically be additional grids, such as **DEM**, **1VD**, **RTP**. These additional grids cannot be visualised within GDADS, but they are automatically included in the data-delivery for purchased magnetics grid data.

- Within the radiometrics \ grids subdirectory will be the various radiometrics grids, named totalcount, potassium, uranium and thorium (if available). All of these grids can be visualised, and used for map making. If all three of potassium, uranium and thorium are present, then there is a further visualisation option, ternary radiometrics. There may be additional grids, (for example k_cps, k_percent) These additional grids cannot be visualised within GDADS, but they are automatically included in the data delivery for purchased radiometrics grid data.
- Similarly for **em** and **gravity**.
- In addition to the above structured subdirectory requirements, there can be any other directories, subdirectories and files of any type within the SurveyName_Directory. None of these additional files can be visualised within GDADS, and are not delivered with a data purchase. These additional directories and files, however, are included in the archive of SurveyName_Directory.

To summarise by illustration, given the above configuration file entries, and assuming a typical survey having both magnetics and radiometrics data, with line data and grids available for sale, GDADS would expect the following subdirectory structure and files:

```
ONLINE (GDADS Data Directory)
     country-wide (GridMerge) files for magnetics, totalcount, potassium,
uranium,
     thorium, em and gravity, used for visualisation and map-making.
 --- Survey1_Directory
      ---magnetics
           ---linedata
                (INTREPID line dataset)
            ---grids
                files magnetics & magnetics.ers
                (plus other magnetics derived files, such as 1VD, RTP, DEM, ...
)
                (these latter not for visualisation, but all grids in this
directory
                                             )
                 (would be delivered grid products in terms of data purchasing.
)
           \---any_other_arbitrary_subdirectory(ies)
                (any arbitrary files in here would be part of the archive, but
not
                                             )
                (data for visualisation, or delivered with data-sales products.
)
```

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> **Note** the mixing together of the structured organised requirements, and other nonstructured parts of the directory tree. From an archiving viewpoint, anything may be included, and everything will be archived. On the other hand, however, from a visualisation and data sales viewpoint, GDADS expects to find specific files in specific locations, and only those files can be visualised. If other grid files are present in the grids subdirectory, those other grids will be delivered with data sales products, but they cannot be viewed in GDADS visualisation.

Adding Survey Specifications to the Database (SurveyInfo Table)

Having collated all of the data, and organised it in GDADS **ONLINE** disk storage area, there are two tables of the database which must be updated. Enter the survey specifications first (into the **SurveyInfo** table), and then import the survey's boundary polygon into the **Outlines** table.

Choose Database Manager (lower-right corner of the GDADS interface) to open the

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WARNING 1: There is no clear distinction between **Add Entry** and **Update Entry**. In adding a new record, it is not possible to start with a 'blank' record. Therefore do use care to ensure that:

- · Correct data entries have been made to all fields of the new record
- The Add Entry button is clicked (and not the Update Entry)

WARNING 2: Don't forget to also add a corresponding survey boundary to the 'Outlines' table !!!



1. Load database	Geo-Science Data Archive and Distribution System File Options	<u>-0×</u>
2. Choose SurveyInfo	Database Manager	ON INE
3. New unique surveyname	OUTLINES 100k new COUNTRY IMAGES 100k_odd 50k_new 250k SURVEYINFO 50k_odd 50	
4. Enter data	surveytitle WindyPlace Aeromaginary St sampling_interval 5 year 2000 line_spacing 200 contractor AeroGecko tie_spacing 2500	
	confidential line_direction magnetics tie_direction radiometrics mag_sensor_type em full256	
5. Add this new entry to database.	gravity domain N/A < << 10 out of 10 Add Entry Update Entry Remove Entry Databas	Display Display
	Viewing: User Tables	Manage

Adding the Survey Boundary to the Database ('Outlines' Table)

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The addition of the survey boundary is simple. Prepare a shape file of the survey boundary, which must be geo-registered to the Datum and Projection specified for the GDADS database.

In the Database Manager, choose the OUTLINES tab; again, you can use the records navigation buttons (|<<>>|) to scroll through the OUTLINES records. To enter a new record, enter the same new surveyname (as used in the SurveyInfo record, and which must be the same name as the directory containing that survey's data). The next steps are not particularly intuitive:

- 1 Left-click in the existing polygon outline. This will open the DBShape Import Tool.
- 2 Select menu File | Open
- **3** Browse to the shape file for the new survey being added.

The new shape will be displayed in the DBShape Import Tool. **Note** that a shape file can contain multiple polygons, in which case the shape ID will be listed in the Shape ID List (left-hand panel of the DBShape Import Tool). If there are more than one, step through the list, and ensure that the correct polygon is selected and displayed. (The process of creating a shape file described in "Creating a boundary polygon in GDADS (D17)" generates polygons which encircle grid cells. Whilst the process always generates a correct polygon which encloses the whole survey grid, it can also generate one or two spurious polygons due to small, isolated pockets of grid cells. Take care to select the correct polygon!). With the correct shape selected and displayed:

- 4 Choose menu File | Save to Database and Exit
- **5** Even though this text is 'save to database...', there is still one further step! Back in Database Manager, with the correct shape now displayed in OUTLINE:

Enter the correct surveyname in the Survey_Name field

6 Click the **Add Entry** button. You will be prompted to confirm this.

The newly added survey may be inspected visually by returning to GDADS Map Display view of the database.

WARNING 1: Again, there is no clear distinction between **Add Entry** and **Update Entry**. In adding a new record, it is not possible to start with a 'blank' record. Therefore do use care to ensure that:

- Correct data entries have been made to both fields of the record
- The Add Entry button is clicked (and not the Update Entry)



7 Click the displayed shape in order to open the DBShape Import Tool.



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8 Menu File | Open, and browse to the required Arc shape file containing the survey boundary.



9 Select the correct polygon if there are two or more in the shape file!



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10 Menu **File | Save to Database** and Exit closes the DBShape Import Tool, and returns to the Database Manager



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11 Back in Database Manager, ensure both input fields are correct, and click the **Add Entry** button,



12 And return to Map Display for a visual confirmation of a successful database entry.

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Editing and Removing Survey Database Records

The Database Manager also allows the editing of any database entries, including importing an alternative shape file into the survey's polygon field in the 'Outlines' table. Click **Update Entry** once the required edits have been applied.

Likewise, it is possible to remove entries—click the **Remove Entry** button. **Note** that in the case of removing a survey, ensure that the appropriate record from both the SurveyInfo table and the Outlines table are removed.

Geo-Science Data Archive and Distribution System	
Database Manager	
OUTLINES 100k new COUNTRY IMAGES 100k_odd 50k_new 250k SURVEYINFO 50k_odd	
SURVEYINFO surveyname WindyPlace ground_clearance 80	
surveytitle WindyPlace Aeromaginary St sampling_interval 5	
year 2000 line_spacing 200	
contractor AeroGecko tie_spacing 2500	
confidential line_direction	
magnetics V tie_direction 90	
radiometrics mag_sensor_type SingleSensor	
full256	
gravity] domain N/A 🗾	
< << 10 out of 10 >> >	Map Display
Add Entry Update Entry Remove Entry	Database Manager
	Archive Manager
Viewing: User Tables	•

Adding 'Country' and 'Map Sheet' Records

The GDADS database has several other tables which contain boundary polygon files, and which are used in the Map Display.

'Country' typically has just one record, which contains the polygon shape file boundary for the 'state' or 'country' that the GDADS database covers.

There are typically several 'map sheet' tables (for example, 50K, 100K, 250K). Each of these tables contain a series of records, one record for each standard map sheet in the given series.

Again, as for the (survey boundary) Outlines, all polygons are created as polygon shape files, which are geo-registered to the Datum and Projection specified for the GDADS database.

All of these tables are virtually the same as the (survey boundary) Outlines table. They have a key field (called 'id'), and the special field used to store the boundary polygon. To add a new record (**Add Entry**) or to edit (**Update Entry**) or delete a record (**Remove Entry**) is identical to the procedure described for the (survey boundary) Outlines table.

Adding Multiple Map Sheets

Since the loading of multiple map sheets is hardly practical if done one-at-a-time (using the **Add Entry** button), the Database Manager provides a special tool for loading a whole series of map sheet polygon shapes.

First create the Arc shape file, containing multiple polygons, one polygon for each map sheet. (A shape file may contain any number of polygon shapes). These polygons must be defined on the Datum and Projection specified for the GDADS database.

Then click the **Region Outline** panel button on the top-right of the Database Manager interface. This opens a new interface, which is similar to the other shape file import interfaces, but has some additional data entry fields to define.

Use the File button to browse to the polygon shape file containing the multiple polygons for the entire map sheet series (or choose Menu **File | Open**). When the shape file is opened, the list of polygon shapes in the file is shown in the top-left panel (the Shape ID List). The shape for the current selection is displayed in the top-right panel, and information about the shape in the middle panel.



In the Outline Database Field panel at the bottom of the interface, choose:

- Table Name—the name of the table into which the polygons are to be loaded.
- Field Name—typically 'shape'—the special field into which shapes are loaded.
- Primary Key Name—the index number in the shape file will be loaded into this field.

Then click the **Apply** button.