GeoGIS2005 – GIS Export Manual

GeoGIS2005

Manual

August 2008



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1. GeoGIS2005 – General Description

GeoGIS2005 is a general framework for managing technical databases. The system includes a number of functions especially made for geological, geotechnical and water technical data and jobs.

GeoGIS2005 applies mainly to public institutions, consultants and contractors.

Data may be viewed in data lists, graphs, documents and maps. The user may import/export data in a number of different formats. Especially worth mentioning is the correlation between GIS-systems such as MapInfo, ArcGIS, GIS Viewer and Google Earth.

This manual has special focus on the GIS Export functions. The general use of GeoGIS is described in the manual: GeoGIS2005_Manual.

2. User interface

2.1 Open Database

The GeoGIS2005 programme may be started using the Windows Start menu or by clicking on the icon:



GeoGIS2005

When GeoGIS2005 is started for the first time the user needs to attach the databases to the system. For Microsoft Access databases this is done simply by dragging the files onto the GeoGIS2005 background.

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MDB Drop Handler		
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Database Type:	Microsoft Access	
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Database Format:	RoadMentor	
Database Page:	RoadMentor	
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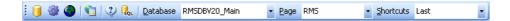
Figure: Drop MS Access (MDB) files on the GeoGIS2005 background.

The MDB Drop Handler dialog contains the following parameters:

Field	Description
Database Name	The name of the database derived from the database filename.
Database Type	The database file format.
Database Connect	Path to the database file or connect string for advanced databases.
Database Format	The database format e.g. RMS, RoadMentor or Romdas.
Database Page	The default page for the database.

If a MS Access database has been divided into several databases and the user wishes to join information from different databases, the user may access the databases through an empty database containing table links to the databases.

When databases have been attached to the system, they may be selected in the database toolbar:



The database attachments may be edited in the *Utilities > Database Administrator*.

2.2 Datagrid

Data in GeoGIS2005 are listed in database windows. The user may open several database windows at a time.

GeoGIS2005 displays data in a tree structure similar to the Windows Explorer. For each select made in the tree structure to the left, the corresponding data will show to the right. If there are sub-folders to the selected folder, data will show in a tabs structure.

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Figure: An example of a database window showing data from GeoGIS2005. To the left is the tree structure, to the right data in lists and tabs.

3. GIS Export

GeoGIS2005 has a number of functions for exporting data to desktop GIS systems directly from the windows. This is made possible by showing data together with the relevant coordinates.

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	003	E	0,00	38375,00		38375,00	1,0108					locDescr			
	003	F	0,00	22468,00		22468,00	1,0044					sRoadid			
	003	G	0,00	25346,00		25346,00	1,0069		L		18	sLinkld			
	003	н	0,00	7928,00	1	7928,00	1,0054				21	Cfactor	1,0087		
	003	1	0,00	24379,00	1	24379,00	1,0012				22	CoreNetwork			
	003	J	0,00	26166,00	1	26156,00	0,9959				23	ASEANNetwork			
	003	К	0,00	20307,00	1	20307,00	1,0015				24	Network Group			
ŧ											25	AssetValue			
											26	MSLink	1		
		inks: WKT							X		21	FRef	003A03		
		POLYLINE	(101.64401)	7 21.06165,	101.644064	21.06143, 1	01.644067 2	1.061206,	<u>~</u>	I	-	Gruppe: 12	GPS Coordinates		
							21.060535, 1		=		28	WKT	POLYLINE (101.644017 21.06165,		
							101.64415 2			N		Gruppe: 100	Revision		
		101.644167	21.059416,	101.64417	7 21.059192,	, 101.644183	21.058967,	101.6442	⊻			Grappe: roo			
		Scale:	100 %					Exit							
		Juaio.	100 %					EXIC		_	<u> </u>	ater Stationerin			
										F2:	Tilf	oj Stationerings	punkter		

Figure: GPS alignment data in WKT format attached to road links, so data easily may be exported to GIS.

The CIS o	where functions	are called from	the shortcut menu:
THE GIS E	sport functions	are called from	the shortcut menu.

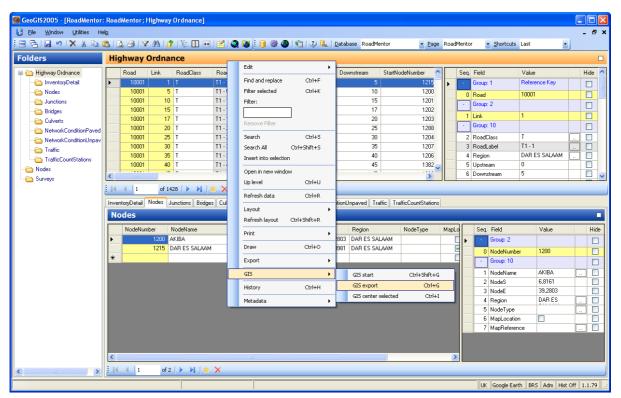


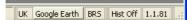
Figure: GIS Export functions.

GIS Export functions:

 <u>GIS start</u> – Starts the selected GIS system. As most GIS systems have a long start-up procedure, it is more convenient to start the GIS system before you send data from GeoGIS2005. The corresponding icon is:

-	·
15	

The easiest way to select the current GIS system is by clicking the button in the system's status bar:



• <u>GIS export</u> – Starts the GIS Export function. The corresponding icon is:



 <u>GIS centre selected</u> – The current GIS window, which has focus is centred on the coordinates in the selected rows. Markers are drawn, but data are not exported. The corresponding icon is:

The workflow for exporting to GIS is:

- 1. Select the data table to export to GIS using the data folder menu. You may use the data search function to expand the data table:
 - Y
- 2. <u>Start the GIS Export function using the shortcut menu or the icon:</u>

GIS Export		×
GIS Definition:	Highway Ordnance	*
GIS Type:	Google Earth	~
Export Type:	Line/Square	~
GIS File:	C:\GeoServer2005\Map\Highway_Ordnance.kml	
Overwrite?		>>
Reload	Log Save Export Selected Export All	E <u>x</u> it

Figure: GIS Export function – Simple view

Select the GIS definition to use for the export. The programme automatically suggests, that you use one named correspondingly to the data folder.

To toggle between simple and detailed view use the button:

The settings are stored for each GIS definition, why they may be reused between sessions.

- 3. Select your preferred GIS Type:
 - Shape
 - ArcGIS
 - MapInfo
 - GISViewer
 - Google Earth

- 4. Select the Export type based on the geometry information available:
 - Point: Given by X, Y, (Z) coordinates
 - Line: Given by two points
 - WKT: Complex geometry as Polyline or Polygon
 - Other: Circles and Cylinders

In the detailed view enter the parameters for the selected geometry type:

General Data Style Categories

and e.g.

Categories Point/WKT Line/Square

5. Select the database information for labels and tables in GIS systems

General Data Style Categories

6. Enter styling information for all objects or by category

General Data Style Categories

7. Do the export:

For selected (hilited) rows only use the button:

Export Selected

For all rows use the button:

Export All

The following pages contain a detailed description of GIS Export parameters. Because of the different capabilities of the various GIS types the GIS Export programme enables and disables the corresponding parameters. In the following parameters lists the GIS types are divided into:

Bas	sic GIS File Format	
1.	Shape Files	Sh
Des	sktop GIS Systems	
2.	ArcGIS	GS
3.	MapInfo	GS
4.	GeoMedia (Not supported)	GS
5.	GISViewer	GS
Vir	tual Globe	
6.	Google Earth	GE

3.1 Simple View

GIS	Export		X
G	IS Definition:	Highway Ordnance	~
G	ilS Type:	Google Earth	~
Ε	xport Type:	Line/Square	~
G	ilS File:	C:\GeoServer2005\Map\Highway_Ordnance.kml	
C) verwrite?		>>
0	Reload	Log Save Export Selected Export All	E <u>x</u> it

Figure: GIS Export programme in simple view.

Field / Button	Description	Sh	GS	GE
GIS Definition	This field contains the name of the GIS Definition. First tim	Х	Х	Х
GIS Type	This field defines the GIS system to receive the exported data: Google Earth GISViewer MapInfo ArcGIS Shape	X	X	X
Export Type	This field defines the geometry: Point/WKT Line/Square Polyline Circle Cylinder (Google Earth only)	X	X	X
GIS File	The output filename. The file extension is determined by the GIS type. If the GIS type is Google Earth the user may change the extension from kml to kmz, the output is then a kml file in zip format.	Х	X	Х
Overwrite	Check if existing GIS files may be overwritten with out warning	Х	Х	Х
Reload	Button used for reloading data from the database form. This will cause all the parameter fields to be overwritten by default values.	X	Х	Х
Log	Button used for display of log file. The log file is produced during the export of the data table to the GIS.	Х	Х	Х
Save	Button used to save the GIS definition. The GIS definitions are saved in the GeoGIS map directory in the file GISDef.xml	Х	Х	Х
Export Selected	Button used to export the selected rows in the database form to GIS	Х	Х	Х
Export All	Button used to export all rows in the database form to GIS	Х	Х	Х
Exit	Button used to close the GIS Export function	Х	Х	Х

Well-known text (WKT) is a text mark up language for representing vector geometry objects on a map. The formats are regulated by the Open Geospatial Consortium (OGC) and described in their Simple Feature Access and Coordinate Transformation Service specifications.

The following are some example geometric WKT strings supported by the GIS Exporter

POINT(6 10) LINESTRING(3 4, 10 50, 20 25) POLYGON((1 1,5 1,5 5,1 5,1 1), (2 2, 3 2, 3 3, 2 3,2 2)) MULTIPOINT(3.5 5.6, 4.8 10.5) MULTILINESTRING((3 4, 10 50, 20 25), (-5 -8, -10 -8, -15 -4)) MULTIPOLYGON(((1 1,5 1,5 5,1 5,1 1), (2 2, 3 2, 3 3, 2 3,2 2)), ((3 3,6 2,6 4,3 3)))

3.2 Folder - General Information

This folder contains information on how to read data from the database form

GIS Export	
GIS Definition:	
	Highway Ordnance 🗸 🗸
GIS Type:	Google Earth
Export Type:	Line/Square 🗸 🗸
GIS File:	C:\GeoServer2005\Map\Highway_Ordnance.kml
Overwrite?	✓
Settings General Data Style I	Categories Point/WKT Line/Square Circle Cylinder Batch
Input C.System Field:	
Input Coordinate System:	LATLON
X Field:	×
Y Field:	~
Z Field:	~
WKT Field:	WKT Preference?
Address Field:	~
Zip Code Field:	×
Output Coordinate System:	LATLON
X Scale:	1
Y Scale:	-1
Z Scale:	1
Start Time Field:	
End Time Field:	×
Reload	Log Save Export Selected Export All Exit



Figure: Folder General

Figure: Data with time information displayed using the Google Earth Time slider.

Field	Description	Sh	GS	GE
Input C. System Field	The name of the field containing input coordinate system.	Х	Х	Х
Input Coordinate System	The input coordinate system, if not stated in the database table.	Х	Х	Х
X Field	The name of the field containing X-coordinates or Easting coordinates.	Х	Х	Х
Y Field	The name of the field containing Y-coordinates or Northing coordinates.	Х	Х	Х
Z Field	The name of the field containing Z-coordinates or Level coordinates.	Х	Х	Х
WKT Field	The name of the field containing coordinates in WKT format.	X	Х	Х
Address Field	The name of the field containing address information, which may be used in Google Earth to geocode information.			Х
Zip Code Field	The name of the field containing the Zip Code / Postal Code. The code is added to the address information.			Х
Output Coordinate System	The output coordinate system. For Google Earth this is always LATLON (WGS84) – For other systems, this is always equal to the input coordinate system.	X	X	
X Scale	Scale on X or Easting coordinates	X	Х	Х
Y Scale	Scale on Y or Northing coordinates. If input coordinates are South-	Х	Х	Х

	ing, then enter -1.			
Z Scale	Scale on Z or Level coordinates	Х	Х	Х
Start Time Field	The name of the start time field used for Google Earth's timer function.			Х
End Time Field	The name of the end time field used for Google Earth's timer func- tion.			Х

3.3 Folder - Data

This folder contains information on how to format data in the GIS system.

GIS Export	×	Soogle Earth	
		File Edit View Tools Add Help	
GIS Definition:	Highway Ordnance 🗸 🗸 🗸	virring 🔍 🖸 🎋 🧭 🚦	
GIS Type:	Google Earth 💌	Oct 26, 2007	No Con
Export Type:	Line/Square 🗸	5:43:11am 6:04:28am	
GIS File:	C:\GeoServer2005\Map\Highway_Ordnance.kml		
Overwrite?		2007-10-26 05:49:04	
Settings			
General Data Style	Categories Point/WKT Line/Square Circle Cylinder Batch	RoadId RD139	
Title:		20 SurveyId 2007	A 18 18 18
ride.		Stat1 43750	
Description:	Database: RoadMentor Update	PType A	Martin 1
	Export: 2007-11-27 10:35:38	X 30,2206696954253	Carlos Cons
	GeoGIS2005 Version: 1.1.68 www.geogis2005.ramboll.dk	Y -12,8670077737069 Z 1330,014	
		AL 3000	
		AR 3000	A STANK IS
Table Defintion:	RoadMentor\$HighwayOrdnance	Class RD	Contraction of the
Table:	Highway Ordnance	2007-510-251053-54700	1.11 200
Data List:	Exclude Hidden Fields	2007-10-26 05:53:28 007-10-26 05:52:56 2007-10-26 05:52:03 2007-10-26 05:52:01	
Label:	&[RoadLabel]	2007-10-26 05:49:04	NOT THE
Label Fields:	Road	2007-10-26 05:47:59 2007-10-26 05:47:22 2007-10-26 05:47:22	A. S. S. S.
Labels in Folder?		2007-10-26 05:46:58 2007-10-26 05:46:11	
Balloon Style:		2007-10-26 05:45:20	
Balloon Style.	HTML Sample	2007-10-26 05:44:46 2007-10-26 05:43:40	
	Sample	2007-10-26 05 43 40	
	Clear	and the second second	Mart & Bar
Balloon Fields:	Road		
			A STATE OF STATE
		Image © 2008 TerraMetrics	State Barrie
Reload	Log Save Export Selected Export All Exit	4.14 km	Google

Figure: Folder Data

Figure: Default balloon style displaying information in table.

Field	Description	Sh	GS	GE
Title	Short title for	Х	Х	Х
Description	Description of the export. The <i>Update</i> button inserts a standard description based on the current database, but the user may enter			Х
	any description.			
Table Definition	Table definition used to generate headings in the exported GIS table.	X	X	Х
Table	The name of the data table in the GIS system.	Х	Х	Х
Data List	This code describes how database tables are exported to GIS ta- bles: All Fields Exclude Hidden Fields Key Fields Only No Fields	X	X	X

Label	Text string defining the label. Table fields in brackets are substi-	Х
	tuted when the map layer is displayed. The Clear button clears the	
	content of the label.	
Label Fields	List for selection of table fields into the label text string.	Х
Labels in Folder?	Check – If geometry data and label data are to be placed in sepa-	Х
	rate folders in Google Earth:	
	Links - Low Resolution Links - Low Resolution Links - Legend Sciently	
	switch of the visibility of e.g. the map labels independently of the geometry layer.	
Balloon Style	This field contains the Google Earth Balloon Style definition in html	Х
	format. Click on the HTML Sample button gives an example of the	
	format. The Clear button clears the content of the Balloon Style. If	
	the Balloon Style definition is empty the system generates a simple	
	style displaying all fields in a table.	

3.4 Folder – Style

This folder contains information on how to style geometry objects in the GIS system. The styling may be changed, when the exported files are loaded into the various GIS systems.

GIS Export	
GIS Definition:	Highway Ordnance
GIS Type:	Google Earth
Export Type:	Line/Square
GIS File:	C:\GeoServer2005\Map\Highway_Ordnance.kml
Overwrite?	
Settings	
	Categories Point/WKT Line/Square Circle Cylinder Batch
Line Color:	255;255;0;0
Line Weight:	1
Fill Color:	255;255;0;0
Opacity:	100
Fill Mode:	Fill + Outline 🛛 Random Color:
Symbol Font:	
Symbol Color:	255;255;128;0;
Symbol:	Donut
Symbol Scale:	0,3 🗸
Label Font:	
Label Color:	255;255;255;
Label Scale:	0,7
Label Placement:	×
Allow Overlab?	Allow Duplicates?
Reload	Log Save Export Selected Export All Exit



Figure: Folder Style

Figure: Polygons styled with random fill color, opacity < 100, red line color and white labels.

Field	Description	Sh	GS	GE
Line Color	The color definition for lines. Click on button to the right to get the		Х	Х
	color dialog.			
Line Weight	The line weight (thickness) in pixels.		Х	Х
Fill Color	The color definitions for regions. Click on button to the right to get		Х	Х
	the color dialog.			
Opacity	The opacity for regions (0 – 100).		Х	Х
Fill Mode	Definition of how regions are displayed.		Х	Х
Random Color?	If checked regions are given a random color.			
Symbol Font	Symbol font for display of point features		Х	
Symbol Color	The color definition for display of symbols. Click on button to the		Х	Х
	right to get the color dialog.			
Symbol	The selected symbol			
Symbol Scale	The symbol scale		Х	Х
Label Font	Label Font		Х	Х
Label Color	The color definition for display of labels. Click on button to the		Х	Х
	right to get the color dialog.			
Label Scale	The label scale		Х	Х
Label Placement	Label placement		Х	

Allow Overlap?	Check – To allow overlapping labels.	Х	
Allow Duplicates?	Check – To allow duplicating labels.	Х	

3.5 Folder – Categories

This folder contains information on how to style geometry depending on data categories. This function is especially useful in connection with Google Earth, because it has no corresponding functionality, while ArcInfo, MapInfo and GeoMedia have many built-in corresponding functions.

GIS Export													×	📄 🔳 🐳 <u>Highway Ordnance</u>
GIS Definition:	Highway Ordna	ance											~	🖨 🔲 🔄 Legend
GIS Type:	Google Earth												~	F - Feeder Road
Export Type:	Line/Square												~	🗧 🔲 🐎 R - Regional Roa
GIS File:	C:\GeoServer2	2005\Mac	\Highwa	v Ordnance.	cml									🖳 🛄 🐎 T - Trunk Road
Overwrite?		,		-										🕀 🗹 🛅 Geometry
														🗄 🗹 🛅 Data
General Data Style	Categories Poir	nt/WKT	Line/Sq	uare Circle	Cylinde	er Bati	ch Sett	ings						1
Category Field:	RoadClass												*	
Category Type:	Individual												~	
Category Max. Items:	10												*	
Style Schema:	RoadClass												~	
	2		Ne	w Rea	ad Data	Spre	ead Color:	•	Clear Col	ors	Save	De	lete	
Category	Description	V1	V2	Symbol		Size	Alpha	Red	Green	Blue	Line Color	Weigh	Alpha	
▶ T	Trunk Road		1		•		255	255	0	Q		6		
R	Regional Road				•		255	0	0	255		3		
D	District Road				•		255	255	128	0		2		
F	Feeder Road				•							1		
*					-	44		122	1					
Reload					L	og (Save	Exp	ort <u>S</u> elec	ted	<u>E</u> xport All		E <u>x</u> it	

Figure: Defining Categories for Road Classes. The categories are displayed in the Google Earth legend folder.

Field	Description	Sh	GS	GE
Category Field	This name of the field containing the categories.			Х
Category Type	 The category type: Individual – Category field contains a limited number of text or number values. Click on <i>Read Data</i> button generates a category corresponding to each value. Range – Equal Intervals – Category field contains numeric values. Click on <i>Read Data</i> button generates categories with equal sized intervals. Range – Equal Count – Category field contains numeric values. Click on <i>Read Data</i> button generates categories with equal sized intervals. Range – Equal Count – Category field contains numeric values. Click on <i>Read Data</i> button generates categories with intervals containing an equal number of data rows. The automatically generated category items may be modified by the user. 			X
Category Max. Items	The max. number of categories to be created.			Х
Style Schema	The name of the style schema. The same style schema may be applied to different data tables / category fields. The <i>New</i> button creates a new style schema. The <i>Read Data</i> button created the various categories corresponding to the Category Type / Category Max. Items settings. The <i>Spread Colors</i> button creates colors between user defined colors, i.e. the user enters the first color and the last color and the button may be used to generate the			X

	colors between. The Save button saves the Style Schema. The	
	Delete button deletes the current Style Schema.	
	Style Schema files are stored in the GeoGIS map directory as	
	StyleSchema_Name.XML	
Category	The category values to match the content in the category field in	Х
	the data table	
Description	User defined description of the various categories	Х
V1 / V2	Lower / Upper interval values – Numeric category types only	Х
Symbol	Symbol	Х
Size	Symbol size / scale	Х
Line Color	Alpha/Red/Green/Blue - Click on button to the right to get the color dialog.	Х
Weight	Line weight (thickness)	Х
Fill Color	Alpha/Red/Green/Blue - Click on button to the right to get the color dialog.	X
Count	Number of data rows in the category – Calculated when the Read Data button is used.	X
Active?	Uncheck – If the category should be disabled.	X

3.6 Folder – Point / WKT

This folder contains information on how to interpreted geometry data when given as single point data (x, y, z fields) or as WKT data (Well Known Text format).

GIS Export		×			
GIS Definition:	Links	~			
GIS Type:	Google Earth	~			
Export Type:	Point/WKT	~			
GIS File:	C:\GeoServer2005\Map\Links.kml				
Overwrite?		<			
Settings					
	Categories Point/WKT Line/Square Circle Cylinder Batch				
Туре:	POLYLINE	~			
Point Level Type:	Clamp to ground	~			
Point Level (m):	q				
Chainage 1 Field:	Stat1	~			
Chainage 2 Field:	Stat2	~			
Accuracy - Distance (m):	100	~			
Accuracy - Angle (Degr.):	15	✓			
Reload	Log Save Export Selected Export All Exit				



Figure: Folder Point/WKT

Figure: Road link exported using different accuracy settings.

Road sections given by alignment data in a WKT field may be delimited by start and end chainages. A point feature, e.g. a bridge, may be defined by a chainage.

Field	Description	Sh	GS	GE
Туре	Indicate the geometry type of the WKT data – This field is auto-	Х	Х	Х
	matic filled by the system when data is loaded.			
Level Type	This code is used by Google Earth to determine how level informa-			Х
	tion is displayed:			
	Clamp to ground – The geometry is projected on the terrain			
	independent of any level information.			
	 Absolute – The geometry is displayed at the level given in the data rows. 			
	 Relative – The geometry is displayed relative to the terrain. 			
Level (m)	This field may be used to enter a fixed level (absolute or relative)			Х
	to replace e.g. missing level information.			
Chainage 1 Field	The name of the field containing start chainages.	Х	Х	Х
	This is used if only a fraction of a Polyline or Linestring should be			
	displayed.			
	If only chainage 1 field and not chainage 2 field is entered, the			
	output is a point.			
Chainage 2 Field	The name of the field containing end chainages – This is used if	Х	Х	Х
	only a fraction of a Polyline or Linestring should be displayed.			
Accuracy – Distance	Polylines and Polygons may be thinned out by entering a min. dis-	Х	Х	Х
(m)	tance between points.			
Accuracy – Angle	Polylines and Polygons may be thinned out by entering a min. an-	Х	Х	Х
(Degree)	gle between points.			

3.7 Folder – Line / Square

This folder contains information on how to interpreted geometry data when given as two point line or square data.

GIS Export	X
GIS Definition:	Highway Ordnance
GIS Type:	Google Earth
Export Type:	Line/Square
GIS File:	C:\GeoServer2005\Map\Highway_Ordnance.kml
Overwrite?	
Settings General Data Style	Categories Point/WKT Line/Square Circle Cylinder Batch
Level Type:	Clamp to ground
Level (m):	0
X1 Field:	StartNodeE 🗸
Y1 Field:	StartNodeS 🗸
X2 Field:	EndNodeE 🗸
Y2 Field:	EndNodeS 🗸
Line Type:	Line
Reload	Log Save Export Selected Export All Exit



Figure: Folder Line/Square

Figure: Tanzania roads displayed using the two point method.

Field	Description	Sh	GS	GE
Level Type	This code is used by Google Earth to determine how level informa- tion is displayed:			Х
	 Clamp to ground – The geometry is projected on the terrain independent of any level information. Absolute – The geometry is displayed at the level given in the data rows. 			
	 Relative – The geometry is displayed relative to the terrain. 			
Level (m)	This field may be used to enter a fixed level (absolute or relative)			Х
	to replace e.g. missing level information.			
X1 Field	The name of the field containing X-coordinate or Easting coordi- nate for the first point.	Х	Х	Х
Y1 Field	The name of the field containing Y-coordinate or Northing coordinate for the first point.	Х	Х	Х
X2 Field	The name of the field containing X-coordinate or Easting coordi- nate for the second point.	Х	Х	Х
Y2 Field	The name of the field containing Y-coordinate or Northing coordinate for the second point.	Х	Х	Х
Line Type	The output type: Line or Square	Х	Х	Х

3.8 Folder – Circle

This folder contains information on how to interpreted geometry data when given as circle data (x, y, z, radius fields).

GIS Export			
GIS Definition:	Analyser - Statistik	Ejie Edit Vjew Ijools Add Help virring	8
		virring 🔽 🔍 🛄 🦎 🧭 👔 🔛 d	
GIS Type:	Google Earth 🔽		
Export Type:	Circle		
GIS File:	C:\GeoServer2005\Map\Analyser_Statistik.kml		
Overwrite?	✓ (<	5. 647-6, 201 5. 4760	< 🐡 >
Settings			
General Data Style	Categories Point/WKT Line/Square Circle Cylinder Batch		
Level Type:	Clamp to ground		
Level (m):	0		
Value Field (Radius):	•		•
Value Scale (Radius):	5	7	NI
Value Field (Height):		5, 684 6. 990	
Value Scale (Height):	1	5, 129 5, 786 - 60 533 5, 991 5, 7318 - 10 5, 786 - 60 533 5, 991	
		B 600 S 383	1
		9. 5 30	9, 585
		9, 454 7, 1 9, 453 9, 547, 9, 646	XT.
		9.469.	X
			1 🔊
		Erønderupvej	553
			1º
			9.
		220 (mage 0 2008 COWI AS, 000)	The
Reload	Log Save Export Selected Export All Exit	2084 m 2 0 2003 Tele Atlas 57/2619 44 N 10'00'02: 87'E 2006 Eye att 4	Google 09 km

Figure: Folder Circle

Figure: Distribution of a chemical compound

Field	Description	Sh	GS	GE
Level Type	This code is used by Google Earth to determine how level informa-			Х
	tion is displayed:			
	Clamp to ground – The geometry is projected on the terrain independent of any level information.			
	 Absolute – The geometry is displayed at the level given in the data rows. 			
	Relative – The geometry is displayed relative to the terrain.			
Level (m)	This field may be used to enter a fixed level (absolute or relative)			Х
	to replace e.g. missing level information.			
Value Field (Radius)	The field containing values used as circle radii.	Х	Х	Х
Value Scale (Radius)	The scale between database values and circle radii.	Х	Х	Х
Value Field (Height)	The field containing values used as cylinder height.			Х
Value Scale (Radius)	The scale between database values and cylinder heights.			Х

3.9 Folder – Cylinder

This folder contains information on how to interpreted geometry data when given as cylinder data (point and levels).

GIS Export	Σ
GIS Definition:	Links
GIS Type:	
Export Type:	Point/WKT
GIS File:	C:\Laos\KML\Links5.kmz
Overwrite?	
Settings	
General Data Style	Categories Point/WKT Line/Square Circle Cylinder Batch
Level Field 1:	×
Level Field 2:	×
Value Field 1:	×
Value Field 2:	×
Value Scale:	1
Reload	Log Save Export Selected Export All Exit

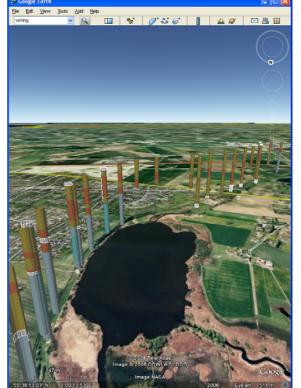


Figure: Folder Cylinder

Figure: Boreholes. Note that Google Earth cannot display object below terrain.

Field	Description	Sh	GS	GE
Level Field 1:	The name of the field containing top level coordinates.			Х
Level Field 2:	The name of the field containing bottom level coordinates.			Х
Value Field 1:	The name of the field containing values used as top cylinder radii.			Х
Value Field 2:	The name of the field containing values used as bottom cylinder radii.			Х
Value Scale:	The scale between database values and cylinder radii.			Х

3.10 Folder – Batch

The GIS Export – Batch programme is used export large datasets and to automate frequently used GIS exports. The user may group together the exports by *GIS Group* and by *GIS Id*.

GIS Export	X	GIS Export - Batch	E
GIS Definition:	RCS 🗸	Application: RMS - RCS V Title:	
GIS Type: Export Type:	Google Earth	RMS - RCS	
GIS File:	C:\GeoServer2005\Map\RCS.kml		
Overwrite? General Data Style Cylinder Batch Settings	Categories Point/WKT Line/Square Polyline Circle	List Status Parameters	
GIS Group:	RMS	B GISP B Projects B RMS	
GIS Id:	RMS - RCS		
Form Page:	RMS		
Form Relation:	FICS	RMS - Features RMS - Links in List	
Form Select:	SELECT RCS.", Link.WKT FROM Link INNER JOIN RCS ON (Link.Linkld = RCS.Linkld) AND (Link.Roadd = RCS.Roadd) WHERE ([IfCS]]SurveyId] = '2004RCS') ORDER BY	- RMS - Map Sheets - RMS - Link	
	[RCS].[RoadId].[RCS].[LinkId].[RCS].[Stat1]	Database Type Database Name	
		From Database: Microsoft Access 💽 RMSDBV20_Main 🔍	
		GIS File: Google Earth 💟 C:\Laos\KML	
Define SG	L Export as Batch Move to GIS Batch	Coordinate System: LATLON 🕑 Overwrite GIS Files: 🗹	
Reload Log Sa	ave Export <u>S</u> elected Export All Exit	Log Def. Save Execute Exit]

Figure: Folder Batch

Figure: GIS Export - Batch

Field	Description	Sh	GS	GE
GIS Group:	The GIS Group is used to divide the GIS exports into various	Х	Х	Х
	groups.			
GIS Id:	The GIS Id is used to identify each GIS export.	Х	Х	Х
Form Page:	The Form Page. Each GIS Export belongs to a Form Page.	Х	Х	Х
Form Relation:	The Form Relation or Form Folder. Each GIS Export belongs to a		Х	
	Form Relation.			
Form Select:	The SQL Select statement used to create the export database ta-	Х	Х	Х
	ble. The SQL Select statement may be edited by hand or using the			
	Define SQL button.			
Form Where:	The Where part of the Select statement to retrieve a single row in		Х	
	the export database table. When the user click on one single GIS			
	feature, this may be used to display the attached.			

Large datasets may exceed the memory size of the computer. These datasets may be exported by entering the corresponding SQL Select statement and either use the *Export as Batch* button or *Move to GIS Batch* button for later export in the *GIS Export – Batch* programme.

Large datasets may be exported using the following steps:

- Define the export and styling using a small dataset
- Modify the SQL Select expression corresponding to the full desired dataset. You may use the *Define SQL* button.
- Use the *Export as Batch* button or
- Use the *Move to GIS Export Batch* button for later export in the *GIS Export Batch* programme

The user may consider dividing large dataset into smaller datasets, e.g. when exporting to Google Earth because the size may also cause problems here.

The *GIS Export – Batch* programme may be started using the icon:



GI	5 Ехро	rt - Batch								×	GIS E	кр	ort -	Batch						×
4	Applicat	ion: RMS - Li	nks in List	✓ Title:							App	olica	ation:	RMS - Li	nks in Li	ist 💌	Title:			
Ī	This GIS	export produce	es map layers cor	ntaining links ir	n a lis	t					Thi	s G	IS exp	ort produce	is map la	ayers contair	ing links in a list.			
E	Enter th	e Selection Id. A	s parameter.								Ent	er t	he Se	ection Id. A	s param	ieter.				
Γ	_ist	Status Param	neters							_	List	:	Sta	tus Param	ieters					
]	Seq.	Table	Title	Туре		Filename	Active?	Count	Done?					Parameter	-	Value				^
	10	&ListId Links	Links	Polyline	-								1	List		Corrected				
	12	&ListId Links	Links -	Polyline	•		V	249					2	Survey		-				=
	20	&ListIdChainag	e Chainage	Point/WKT	•								3	Chainage i	interval	250			-	
	22	&ListId	Chainage	Point/WKT	•			741					4							
		&Listid GPS	GPS Points	Point/WKT	•							2	5							
	40	&ListId MCA	MCA	Polyline	•								6							
	100	&ListId	Point Events	Point/WKT	•								7							~
		Da	tabase Type	Datab	ase N	lame								Da	tabase '	Туре	Database Name			
F	From Da	atabase: Mi	crosoft Access	🗸 Zamb	ia200)7A			✓ [Fro	m D) ataba	ise: Mic	crosoft A	locess	Zambia2007A		*	
C	GIS File	Go	ogle Earth	C:\RM	4S/M	lapsB\					GIS	Fil	e:	Go	ogle Ea	rth	C:\RMS\MapsB\			
(Coordin	ate System: 🗤	GS84	Verw	rite G	iIS Files:					Cod	ordi	nate 9	ystem: 📈	GS84		Overwrite GIS Files			
(Log		⊇ef. S	ave		(Execute) <u>E</u> ;	<u>kit</u>			Log	,		⊇ef.	Save		<u>Execute</u>	Exit	.::

Figure: GIS Export – Batch – Status folder

Figure: GIS Export – Batch – Parameters folder

Field / Button	Description	Sh	GS	GE
Application:	The GIS Group is used to divide the GIS exports into various	Х	Х	Х
	groups.			
Title:	The GIS Id is used to identify each GIS export.	Х	X	Х
List Folder:	This folder contains a treeview of the available exports	Х	Х	Х
Status Folder:	X	X	X	
Parameters Folder:	This folder contains export parameters. The parameters may be used in the SQL statements.	Х	Х	Х
From Database:	The database to export from. Select between the databases at- tached to GeoGIS2005.	Х	Х	Х
GIS File:	The first part of the GIS file names. Typical the directory where the	Х	Х	Х

	GIS files are exported to.			
Coordinate System:	The output coordinate system for the GIS files.	Х	Х	
Overwrite GIS Files:	The Where part of the Select statement to retrieve a single row in the export database table. When the user click on one single GIS feature, this may be used to display the attached.	X	Х	Х
Log	Button used for display of log file. The log file is produced during the export of the data table to the GIS.	Х	Х	Х
Def	Button used for editing the database defining the GIS exports.	Х	Х	Х
Save	Button used to save the GIS definition. The GIS definitions are saved in the\GeoGIS2005\Access\GS05GIS.mdb file.	Х	Х	Х
Execute	Button used to start the active GIS exports	Х	Х	Х
Exit	Button used to close the GIS Export – Batch function.	Х	Х	Х

When output is directed to Google Earth (kml) the GIS Export - Batch programme creates a network file:

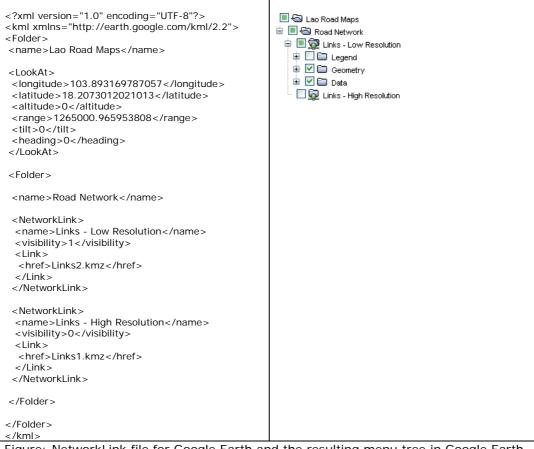


Figure: NetworkLink file for Google Earth and the resulting menu tree in Google Earth

The NetworkLink file may be edited in e.g. notepad.

The main elements are:

<folder></folder>	This tag defines the folder structure
<name></name>	This tag defines the name of folders and links
<visibility></visibility>	This tag defines the initial visibility of folders and links in the
	map:

	0 = invisible
	1 = visible
<networlink><networklink></networklink></networlink>	This tag defines a single network link entry
<link/>	This tag defines the location of a single kml/kmz file. Use the full
	internet url address when the NetworkLink file is used in an
	Internet environment.
<lookat></lookat>	This tag defines the initial view

Detailed information about the kml format may be viewed at:

http://code.google.com/apis/kml/documentation/kmlreference.html

3.11 Folder – Settings

This folder contains information on GIS settings.

GIS Export	×
GIS Definition:	Highway Ordnance 🗸 🗸
GIS Type:	Google Earth
Export Type:	Line/Square 🗸
GIS File:	C:\GeoServer2005\Map\Highway_Ordnance.kml
Overwrite?	✓ <
General Data Style (Settings	Categories Point/WKT Line/Square Circle Cylinder Batch
Default Coordinate System:	LATLON
Default Map Folder:	C:\GeoServer2005\Map
	Save
Reload	Log Save Export Selected Export All Exit

Field	Description	Sh	GS	GE
Default Coordinate	The default coordinate system is the assumed input coordinate	Х	Х	Х
System:	system when no coordinate system is assigned in the data table.			
	The default coordinate system may be overwritten in the General			
	Folder.			
Default Map Folder:	The default output file folder for map files. The user may change	Х	Х	Х
	the output GIS File including the folder in the GIS File field.			