Databases in Field-Map ver. X4 (X5)



Currently available in Field-Map

- Local databases:
 - Paradox
 - Access
 - Firebird embedded
 - Microsoft SQL Server localDB
- Server-side databases:
 - Firebird
 - Microsoft SQL Server

Paradox

- Old fashioned database, but still very fast
- No improvements since 2002
- May cause problems on newer operating systems
- Requires Borland Database Engine
- Not Unicode

MS Access

- Widely used database
- Data can be easily viewed and modified using MS Access
- Users are often familiar with access databases
- Field-Map X4 uses newer access database version (ACCDB)
- Requires Microsoft Access database engine

Firebird embedded

- Default database in Field-Map since the version X4
- Lightweight embedded database
- Unicode
- Easy to distribute
- Forked (2000) from IterBase (1984)
- Open source
- More info at http://www.firebirdsql.org/
- Is built in Field-Map installation no additional drivers are required

MS SQL localDB

- Minimal version of MS SQL Server
- Uses the same database engine as MS SQL Server and can be managed using the same tools
- Takes up more space compared to other databases (~140 mb after installation)
- Runs as separate process
- Available for Windows 7 or newer

Simple structure of projects using MSSQL, Access and Firebird database ...

Name / Ext	Size	Date	Time	Attr				
t	DIR	23.9.2014	16:46:25					
LookupTables	DIR	23.9.2014	16:46:17					
MapLayers	DIR	23.9.2014	16:46:17					
Maps	DIR	23.9.2014	16:46:17					
Misc Mis	DIR	23.9.2014	16:46:33					
la Pictures	DIR	23.9.2014	16:46:17					
	DIR	23.9.2014	16:46:17					
〗 Voice	DIR	23.9.2014	16:46:17					
FieldMapData_FieldMapProject1.ldf	1 048 576	23.9.2014	16:46:33	Α				
FieldMapData_FieldMapProject1.mdf	4 259 840	23.9.2014	16:46:33	Α				
StemAnalyst ■ Ste		DIR 23.9.2	2014 9-0	5:38				
Videos		DIR 23.9.2		5:36				
₩ Voice		DIR 23.9.2		5:46				
FieldMapData_ExampleProject_Acc.acc	db 1 458	176 23.9.2		5:48	Α			
		DIF	23.9.201	14 8:57:	50			
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	3_LDB.FDB	2 514 944	23.9.201	14 9:24:	34 A			
		-						

...comparing projects using Paradox

Name 🛆 Ext	Size	Date	Time	Attr
t	DIR	23.9.2014	9:32:56	
Lxport Export	DIR	23.9.2014	9:32:06	
LookupTables	DIR	23.9.2014	8:55:46	
MapLayers	DIR	23.9.2014	8:51:52	
Maps	DIR	23.9.2014	8:51:52	
Misc	DIR	23.9.2014	8:51:52	
Pictures	DIR	23.9.2014	8:51:52	
StemAnalyst	DIR	23.9.2014	8:51:52	
₩ Videos	DIR	23.9.2014	8:51:52	
₩ Voice	DIR	23.9.2014	8:51:52	
alock	25	212 2013		Δ
☑ Data.DB	34 816	12.8.2014		A
Data.PX	4 096	12.8.2014		A
Data.PX Data.VAL	4 096 892	12.8.2014		A
Data.VAL Deadwood.DB	92 160	23.9.2014	8:55:44	A
Deadwood.DB	92 160 4 096	23.9.2014	8:55:44 8:55:44	A
Deadwood.MB Deadwood.PX		23.9.2014	8:55:44 8:55:44	
Deadwood.VAL	4 096	23.9.2014	8:55:44	A A
	718 14 336			
Deadwood_Diameters.DB		23.9.2014	8:55:46	A
Deadwood_Diameters.PX	4 096	23.9.2014	8:55:46	A
Deadwood_Diameters.VAL	462	23.9.2014	8:55:44	A
₫ DEM.DB	169 984	25.7.2012		A
DEM.PX	8 192	25.7.2012		Α
	384	25.7.2012		Α
gpsReferencePoints.DB	4 096	25.7.2012		Α
GpsReferencePoints.PX	4 096	25.7.2012		Α
GpsReferencePoints.VAL	458	25.7.2012		Α
Plots.DB	8 192	23.9.2014	8:55:44	Α
Plots.MB	4 096	23.9.2014	8:55:44	Α
Plots.PX	4 096	23.9.2014	8:55:44	Α
	1 577	23.9.2014	8:55:44	Α
ReferencePoints.DB	4 096	25.7.2012		Α
ReferencePoints.PX	4 096	25.7.2012		Α
g ReferencePoints.VAL	460	25.7.2012		Α
RegPoints.DB	40 960	23.9.2014	8:55:46	Α
RegPoints.MB	4 096	23.9.2014	8:55:46	Α
RegPoints.PX	4 096	23.9.2014	8:55:46	Α
RegPoints.VAL	720	23.9.2014	8:55:46	Α
RegPoints.XG0	16 384	23.9.2014	8:55:46	Α
RegPoints.YG0	4 096	23.9.2014	8:55:46	Α
Stones.DB	88 064	23.9.2014	8:55:46	Α
Stones.MB	4 096	23.9.2014	8:55:46	Α
Stones.PX	4 096	23.9.2014	8:55:46	Α
Stones.VAL	715	23.9.2014	8:55:46	Α
SysTab_DeletedRecords.DB	2 048	14.8.2014	9:36:24	Α
SysTab_DeletedRecords.PX	2 048	14.8.2014	9:36:24	Α
SysTab_DeletedRecords.VAL	497	14.8.2014	9:36:24	Α
SysTab_DeletedRecordsLog.DB	2 048	23.9.2014	8:55:46	Α
SysTab_DeletedRecordsLog.PX	2 048	23.9.2014	8:55:46	Α

MS SQL server and Firebird server

- When connecting to server, Field-Map creates XML file with server connection details and stores it instead of database in the folder of the project
- XML file has a very simple structure and can be shared

Microsoft SQL Server

- Popular and database server
- Easy setup and administration
- Standard edition of MS SQL Server comes with tools, that let you easily:
 - Manage databases and user accounts
 - Backup and restore databases (manually or automatically)
 - Export, import and replicate data
 - Create and deliver reports
 - Integrate data from various sources
- Can run only on Windows operating system
- Additional licensing costs
- Commercial product

Firebird Server

- Open source and multi-platform database server
- Runs on Windows, Linux and Unix operating systems
- More difficult to set up than MS SQL Server provides only command line utilities
- Other administration tools are available as third party applications (free and commercial)

Conclusion

- We would like to encourage Field-Map users to prepare their projects using Firebird
 - Supports both local and server storing of database content
 - It is for free
 - It records very good parameters comparing other available databases
 - Firebird community is very opened and provides many utilities improving work with Firebird database for free on their web page (http://www.firebirdsql.org/)
 - Field-Map instalation pack is for free equiped with FirebirdViewer.exe tool, which enables to simly open, browse and modify records of this database

Thank you for your attention