

KETTLE 2.2.0 FEATURE LIST

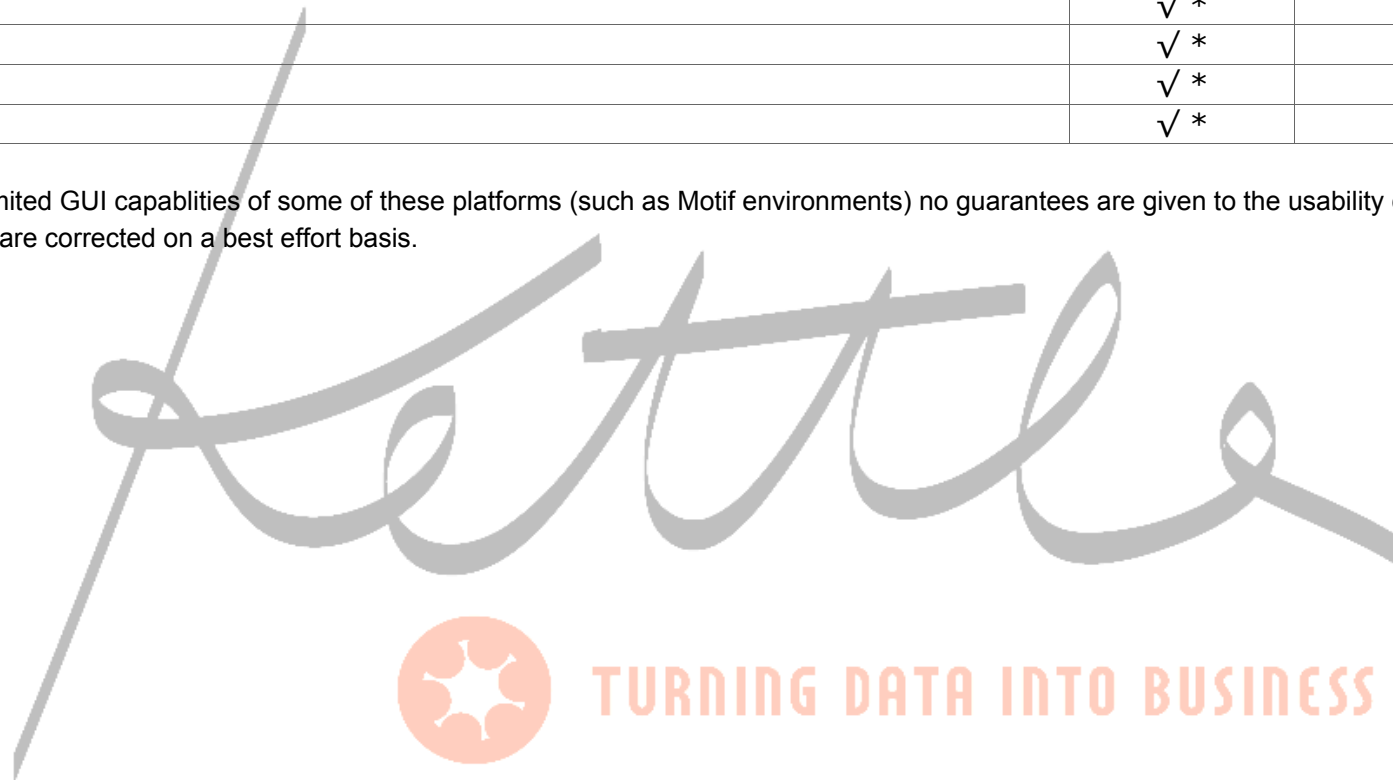
Document version: 2005/12/03



Supported database	Read	Write	Repository	Database Explorer
MySQL	✓	✓	✓	✓
Oracle	✓	✓	✓	✓
AS/400	✓	✓		✓
MS Access	✓	✓	✓	✓
MS SQL Server	✓	✓	✓	✓
DB2	✓	✓	✓	✓
PostgreSQL	✓	✓	✓	✓
Intersystems Caché	✓	✓	✓	✓
Informix	✓	✓	✓	✓
Sybase	✓	✓		✓
Gupta SQL Base	✓	✓		✓
dBase III, IV or 5	✓	✓		✓
Firebird SQL	✓	✓	✓	✓
Hypersonic	✓	✓		✓
SAP DB	✓	✓		✓
CA Ingres	✓	✓		✓
SAP R/3 System	✓			✓
Generic database access using ODBC	✓	✓		✓

Supported Platform	GUI	Execute
Windows	✓	✓
Linux	✓ *	✓
Solaris	✓ *	✓
Apple OSX	✓ *	✓
HP-UX	✓ *	✓
AIX	✓ *	✓

* Because of the limited GUI capabilities of some of these platforms (such as Motif environments) no guarantees are given to the usability of the Kettle GUI. Possible problem are corrected on a best effort basis.



Text file handling	
Read: single or multiple files	✓
Read: CSV files with optional separator	✓
Read: Support for zipped files	✓
Read: Fixed record length files	✓
Read: automatic scanning of source file(s)	✓
Write: field selection	✓
Write: output format selection	✓
Write: Append file	✓
Write: Split file into parts based on the number of rows	✓
Write: separator and enclosure can be specified	✓
Write: support for zipped files	✓
Metadata	
All Kettle actions and functions are defined as metadata (100%)	✓
All Kettle metadata can be expressed in XML	✓
All Kettle metadata can be expressed in the Kettle database repository	✓
All Kettle metadata can be edited using a GUI (Spoon, Chef, Dialogs, ...)	✓
The Kettle metadata is always in a readable format: open access	✓



TURNING DATA INTO BUSINESS

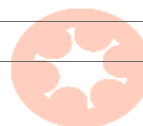
Transformation functionality		
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Transformation: a collection of steps performing specialized tasks (see below)	✓
Two or more steps pass rows of data from one step to another	✓
Work with rows of fields containing data	✓
Merge streams of rows from different sources	✓
Split streams of rows to multiple targets (for example: write to database and text file at the same time)	✓
Origin tracking of fields. (where is field X coming from)	✓
Unlimited number of in-between steps (depending on available memory and CPU)	✓
Unlimited number of processed rows	✓
No creation of temporary files except for sorting and joining.	✓
Plugin-system allowing any java programmer to write a transformation step	✓
Data types: double precision floating point(64 bit), long integer (64 bit), date (millisecond precision), String (unlimited length), big numbers (any precision or length)	✓
Even distribution of source rows to multiple target steps. (split load over multiple databases)	✓
Copy of source rows to multiple target steps. (send the same data to multiple databases)	✓
Allow a step in the transformation to be started more than once in parallel.	✓

Available steps	
DB: Parameterized read from database	✓
DB: Write to database table (using batch loads)	✓
DB: Perform lookups in table	✓
DB: Database join using freehand SQL	✓
DB: Insert / Update database table function	✓
DB: Update database table function	✓
DB: Call database procedure/function with parameters	✓
Lookup values in memory using data from any source	✓
Get information from the environment (time, date-ranges, arguments, ...)	✓
Generate one or more rows	✓
Native read (no ODBC) from Xbase files (dBase III, IV, Foxpro, ...)	✓
Native read (no ODBC) from Microsoft Excel files, read data from separate sheets, range selection, ...	✓
Select fields in rows from previous steps, delete fields, change name/type of fields (meta-data)	✓
Filter rows based on conditions, using graphical Condition editor	✓
Sort rows based on a combination of fields (ascending and descending)	✓
Add sequences using transformation wide counter or using Database sequences	✓
Join multiple streams of rows in a cartesian product with optional condition.	✓
Execute any JavaScript on the fields in the rows	✓
Normalize values in crosstabs (for example from Excel forecasts, etc)	
Remove double rows (unique function) by looking at specified fields for equality.	✓
Grouping function allowing the calculation of sums, counts, ...	✓
High-speed calculator functionality allowing pre-defined much used functions to be executed such as percent calculation, rounding, etc.	✓
Field splitting for complex parameterized data (A=100,B=200,D=400, etc)	✓
Execute arbitrary parameterized SQL commands using rows for input.	✓
Execute arbitrary parameterized SQL commands using rows for input.	✓

Spoon GUI	
GUI designer for transformation using drag&drop and easy to use dialogs	✓
Copy / Paste of steps	✓
Undo redo of changes	✓
Determine input fields for a step showing the origin	✓
Determine output fields for a step showing the origin	✓
Keep a list of the last opened files.	✓
Change colors, background colors and fonts used in Spoon	✓
Allow hops between steps to be split	✓
Allow steps to be detached from hops between steps.	✓
"Create database connection" wizard	✓
"Copy database table" wizard	✓
Run transformations	✓
Preview transformation	✓
End-to-end checking of transformation (or selected steps)	✓
Allow database operations to be cancelled (for example long running queries)	✓
Progress dialogs for time-consuming operations	✓
Database Impact analyses of a transformation (Read, Write, Update, ...)	✓
Persistent caching of SQL results	✓
Read transformations stored in XML files	✓
Paste transformation in XML from the clipboard	✓
Open transformation from a Kettle repository	✓
Connect to a Kettle repository	✓
Explore a Kettle repository	✓
Share/manage database connections in a central Kettle repository	✓
Database: explore a database using the database connections	✓
Database: execute SQL using the SQL Editor	✓
Database: create SQL for table, index or sequence creation or modification	✓
Manage licenses	✓

Kettle Repository	
Create a Kettle repository: relational database tables with reference content	✓
Upgrade a Kettle repository from a previous version or re-populate the reference content	✓
Create and administer repository users & passwords	✓
Create, Delete, Edit or rename user profiles	✓
Grant rights to users using profiles (read-only, administrator, normal user, ...)	✓
Store, retrieve, rename, delete transformations in the repository	✓
Store, retrieve, rename, delete jobs in the repository	✓
Create, Edit, Store, retrieve, delete database connections in the repository	✓
Create, Delete or rename directories and subdirectories in the repository	✓
Allow jobs and transformations to be moved from one directory to another (drag & drop)	✓
Export all repository objects to an XML file (for backup)	✓
Import all repository objects from XML file to a destination directory (for recovery)	✓
"Export all transformations" functionality	✓
"Export all jobs" functionality	✓



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