FIX2DB Installation Guide

FIX2DB is a Java based console tool which has the following features:

- Extracts FIX messages from files and stores them to the DB
- Monitors files and extracts newly appeared messages
- Uses JDBC, can work with any RDBS

In order to start the application, following steps are required:

- Define a path to the properties file in *run.bat* (default is *fixle.properties* in *resources* folder)
- Change properties in properties file as required
- Ecxecute *run.bat*

To read logs:

- Changed *LogDir* and *Backup.Directory* in *fixle.properties* file to the actual.
- Configure Database parameters.

Below is a description of FIX2DB properties stored in *fixle.properties* file:

Parameter Name	Default Value	Description
LogDir	log	Log directory for export
Backup.Directory	backup	Directory for backup files
LogItem.Pattern/LogItem.Timestamp		Pattern which presents sequence of reading data for one LogItem element LogItem.Pattern =<timestamp> : <FIXMessage>\u000D\u000A LogItem.Timestamp = yyyyMMdd-HH:mm:ss.SSS
bodyLength, limitedByTags		Type of extraction strategy
LogItem.FIXMessage.Extraction.Strategy	bodyLength	Type of strategy : bodyLength, limitedByTags bodyLength - format of message is 8=*<Field.Delimiter>9=<bodyLength><Field.Delimiter>...10=<checkSum><Field.Delimiter> limitedByTags - format of message is 8=*<Field.Delimiter>..<binaryLengthTagK>=<binaryLengthValue><Field.Delimiter><binaryTagK>=<binaryData><Field.Delimiter>...10=<checkSum><Field.Delimiter>
LogItem.FIXMessage.Field.Delimiter	\u0001	Unicode character that is used as fields delimiter (\u0001 is Unicode representation of SOH)
LogItem.FIXMessage.Binary.Fields		List of binary fields, can contain non-text symbols kind of SOH. Should be presented in format : <binaryLengthTag1> <binaryTag1>, <binaryLengthTag2> <binaryTag2>, for example: 99 44, 55 33
Extended.Fields		List of fields which should be extracted and stored in DB, separated by comma: 54, 21, 97
Extended.Fields.Mapping		Dictionary for mapping number of fields to column name in DB: <fileNumber1>:<ColumnName1>,<fileNumber2>:<ColumnName2>,... where columns

		<ColumnName1>,<ColumnName2>,... should exist in *fixlogs* table. If empty then will be used columns names like a FIELD_54, FIELD_21, .. in accordance with number of extended tags.
Files.Filter.Special.Pattern /Files.Filter.Special.Backup. Pattern	for FIXAC : ^(.*)_([0-9]*).(in|out)$ for FIXAJ : ^((.*)-(.*)).(in|out)$/ for FIXAC : ^(.*)_([0-9]*).(in\|out)$ for FIXAJ : ^(.*)_([0-9]*).(in|out)$	Used to watch files matching this pattern, if empty then default patterns are used in accordance to LogType, for example: ^(.*).(dmp) $
Backup.Maximal.Checking.Attempts	5	Number of attempts if backup occurs when we catch DifferentFileException
LogType	FIXAC	Type of engine logs. Note: Supported next server log types: - FIXAC - FIX Antenna C++/.Net - FIXAJ - FIX Antenna Java 2 - FIX_GENERIC – logs, defined by Files.Filter.Special.Pattern and Files.Filter.Special.Backup.Pattern properties
Read.Thread.Num	5	Number of threads that will simultaneously read files and commit data to DB
CheckInterval.LogDir	1	Time interval (in seconds) for checking changes in the log directory
Read.BadLine.Attempts	3	Number of attempts to read a bad line before skip it
Read.BadLine.Attempt.Delay	300	Time of delay (in milliseconds) after a failed attempt to read
Read.Block.Size	10000	Number of messages in one block
DataBase.DriverName	com.mysql.jdbc.Driver	The JDBC driver class name
DataBase.SCHEMA	fixlogs	SCHEMA of DB
DataBase.URL	dbc:mysql://localhost:3306	URL to be passed to the JDBC driver to establish a connection.
DataBase.Username	root	Username to be passed to the JDBC driver to establish a connection
DataBase.Password	admin	Password to be passed to the JDBC driver to establish a connection
DataBase.ConnectionPool.InitialSize	3	Maximum number of active connections that can be allocated at the same time
DataBase.ConnectionPool. MaxActive	15	Initial size of the connection pool
DataBase.CreationScript	/dbTableCreationScript.sql	Script for creation DataBase
DataBase.Tables.Sessions	fixfilesessions	Datatable that is used to store sessions files related information
DataBase.Tables.Logs	fixlogs	Datatable that is used to store FIX messages