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Readme.txt

This file contains the latest technical details of  
"Adabas Client for Java"

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Adabas Client for Java                   Version 2.0.0  
October 2017  
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1. Supported Platforms

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Please confer to the System Requirements of the installation  
documentation  
"Installing Adabas Client for Java" for details about the supported  
operating system platforms.

2. Prerequisites

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"Adabas Client for Java" requires Java Version 1.8 or above.  
  
For remote database access Entire Network needs to be installed with  
the

most current ZAP updates or hotfixes, respectively.

To call remote databases, in this version the need of Entire Network client is obsolete.

### 3. Installation/Configuration

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The "Adabas Client for Java" is installed with the Software AG Installer.

The package consists of

- o The Adabas Client for Java API including examples, javadoc and jar-files
- o The Adabas Data Designer - a data browser and configuration tool  
The Adabas Data Designer is supported on Linux and Windows platforms only
- o The Adabas REST Interface based on Jetty providing JSON and XML based REST access on Adabas data including an example application

To get full local database access on z/OS, an additional product Adabas Client for z/OS is needed. To use Adabas Client for Java on z/OS, please contact Software AG.

### 4. Documentation

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You can get the documentation for "Adabas Client for Java" at the Software AG Documentation Web site at <http://documentation.softwareag.com>. There you always find the latest documentation available.

The documentation is available as HTML and PDF documents.

The installation contains the HTML-based Javadoc of the "Adabas Client for Java" API.

### 5. New Features

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Adabas Client for Java Version 2.0.0 does include some refactoring new functionality. The overall aim is to provide more Natural like search methods. Due to refactoring of Adabas Client for Java API, it might be necessary to recompile the code

- o Old obsolete methods are removed and multiple methods merged to to one method or are set to be deprecated.
- o Super descriptors search could be defined using complete one String query. It's similar to Natural usage of Super Descriptors.
- o Adabas Data Designer is provided as Eclipse plugin for the Eclipse SDK.

See point 7.

- o Adabas Id on zOS is generated correctly

- o Rest server handles binary Lob read and store data into Adabas
- o A number of internal bugs and errors are fixed
- o Fix a number of problems in search tasks
- o Add correct CORS handling in Adabas Client for Java Rest server
- o Add support for zOS CICS environment (additional CICS component is needed)
- o Deliver log4j2 instead of logback. Nevertheless logback can still be used with Adabas Client for Java
- o close() calls will not do an implicit End of Transaction. Instead, if transactions are still active, the Backout Transaction is called. In case of an error or without End of Transaction call, all transaction will be reverted.

## 6. Solved Problems

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### Version 2.0.0

- ACJ-102: close() caused by Exception stores records
- ACJ-101: Search criteria using Packed cause Exception
- ACJ-100: End of Transaction ISN array < number of transaction
- ACJ-98: vulnerable 3rd party logback used
- ACJ-93: Rest Server access with huge result lists using JSON gets MemoryException

### Version 1.1.2

- ACJ-95: DataDesigner: not possible to create map file using existing adabas demo fdt file
- ACJ-94: ReadRequest#resetFieldDefinition() also deletes mapping information
- ACJ-84: Enhancement: Provide the example database as backup or adaord file
- ACJ-80: DataDesigner: Adabas exception if the map file already exists

### Version 1.1.1

- ACJ-63: Mainframe descriptor-sorted read with offset return no record
- ACJ-85: SQL null field cause error in binary field
- ACJ-87: Descending descriptor read return ascending data
- ACJ-88: Super descriptor search with GE returns incorrect data
- ACJ-89: Not possible to reset result in ReadRequest
- ACJ-90: Error when opening file in Adabas Data Designer

### Version 1.1

- ACJ-5: LA fields don't support partial lob format buffer on Mainframe
- ACJ-39: DataDesigner: Type for sub-field of PE group not shown
- ACJ-40: Creating wrong file number for new Adabas Data Designer file
- ACJ-41: Validation of Javadoc jar failed
- ACJ-42: Alpha field types changed to LOB in Adabas Data Designer
- ACJ-45: Long names with white spaces
- ACJ-47: DataDesigner: subfields of Super- and Sub-Descriptor fields

are now duplicated  
ACJ-49: DataDesigner: modify fields using doubleclick seems to be ignored  
ACJ-50: DataDesigner: null pointer exception using edit map  
ACJ-52: DataDesigner: select two subfields of a period group displays  
data of both fields in one column (duplicated)  
ACJ-53: DataDesigner: missing explanation for NB option of LOB-field (same as classic view)  
ACJ-55: DataDesigner: rename file seems to be ignored  
ACJ-56: DataDesigner: rename of database - cancel required using task manager (windows)  
ACJ-59: DataDesigner: create file/map returns Adabas response 40 using Finish button  
ACJ-60: DataDesigner: short names not unique

#### Version 1.0.1

ACJ-2: NC Null value indicator cause rsp 55  
ACJ-3: ACJ Map hierarchy not valid  
ACJ-4: Deep PE groups cause problems during parser  
ACJ-6: Field level information lost using maps  
ACJ-9: Online calls to Net-Work 7.6 cause sporadic disconnects  
ACJ-10: QUERY: PopUp Window cannot be closed anymore - need to kill

#### Data

Designer using Taskmanager  
ACJ-11: QUERY: mapfile without any fields generated  
ACJ-12: REST : start server failed on Linux - misleading error message  
ACJ-15: REST : error for input string returned using "Free Form"  
ACJ-17: QUERY : Data Designer fails to start on Linux  
ACJ-19: QUERY : any changes in field editor seems to be ignored  
ACJ-29: DataDesigner: it's not possible to use mis.fdt to create mapping  
for an existing Adabas Demo File  
ACJ-36: DDM are exported by SYSOBJH not SYSTRANS

### 7. Adabas Client for Java on z/OS USS

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To use Adabas Client for Java on z/OS USS, the prerequisite Adabas Client for z/OS is needed. In addition the ACJ package for z/OS USS contains libraries needed to call local Adabas databases on z/OS host. Consider Adabas Client for z/OS Readme to read installation steps. Please source sagenv.new which should be located on top of both Adabas Client and Adabas Client for Java extraced packages.

Adabas Client for Java supports both 32-Bit and 64-Bit z/OS Java version. By default the 64-Bit libraries are used. To use Java 32-Bit versions you need to set the ACL32 environment variable to any value. Example:

```
export ACL32=on
Source sagenv.new after that.
```

The Adabas Client for Java delivers two JCL script examples in the "examples" directory.  
Please ask support to get the corresponding prerequisite.

#### 8. Adabas Client for Java in z/OS CICS

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Adabas Client for Java can be used inside an CICS java program accessing Adabas using the Adabas CICS Link Routine. To enable you need to install the Adabas Client for Java archive called CORIC for Adabas Client for Java.  
Please ask support to get the corresponding prerequisite.

#### 9. Adabas Client for Java Data Designer plugin

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A Data Designer Eclipse plugin is part of the Adabas Client for Java installation. Up to now the Software AG Designer integration is not done.  
To install the Eclipse plugin you can add the update-site directory inside the AdabasDataDesigner to the Eclipse installation with  
Help -> Install new Software ... -> Add.. -> Local..  
Browse to the update-site directory inside the Adabas Client for Java Data Designer installation. The Data Designer plugin is not encrypted at the moment.  
After the installation a new Adabas perspective is available inside Eclipse.

#### 10. Known Issues

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- o After uninstalling "Adabas Client for Java" the Adabas Data Designer directory needs to be removed manually.
- o Adabas Client for Java API uses SLF4j (<http://www.slf4j.org>) for logging and tracing facilities. SLF4J can be used with various log systems underneath, Adabas Client for Java uses Log4j per default. A configuration template "log4j.properties" is part of the distribution. If this property file is not part of the classpath, the following warning can be shown:  
log4j:WARN No appenders could be found for logger (com.softwareag.adabas...).  
log4j:WARN Please initialize the log4j system properly.  
log4j:WARN See <http://logging.apache.org/log4j/1.2/faq.html#noconfig> for more info.

If however the slf4j Java archives are not part of the classpath, following

message can be shown:

```
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for
further details.
```

- o On NUMA-Machines with SUSE Enterprise Linux the Adabas Client for Java API might show bad performance. This depends on the machine. If such bad performance is observed, please set the environment variable ACL\_NOTIFY\_DISABLE=1.

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## 11. Copyright Information =====

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