

Apache Directory

The Apache Directory Project - Toolchain for Developers

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- Stefan Seelmann
- Freelancer
 - Software development with Java
 - LDAP, Identity- and Access Management
- Open Source developer
 - Apache Directory project
 - DataNucleus LDAP store



- Apache Directory project
- Live feature tour
 - Explore the productive server
 - Setup LDAP server for development environment
 - Merge schema from productive server to dev
 - Copy example data
 - Create a new schema
 - Unit testing
- Conclusion & Discussion



Apache Directory Project

- Directory solutions in Java
- Apache license
- Sub-projects:
 - Server (ApacheDS)
 - Studio
 - Triplesec
- This talk will focus on tooling for application developers



Apache Directory Server

- Directory Server in Java
- Protocols: LDAP, DNS, DHCP, NTP, Kerberos, Change Password
- X.500 ACI, Trigger, Stored Procedures
- Open Group certified LDAPv3 server
- In progress: ChangeLog, Replication, Config in DIT
- Features for application developers:
 - Ease to setup for development environment (zip/tar)
 - Embeddable into Java applications
 - Junit 4 based testing framework (LDAP, Krb5)





Apache Directory

Apache Directory Studio

- Directory client platform
- Eclipse based
 - Integration into Eclipse
 - Application for Linux (x32/x64), Mac OS X, Windows
- Features:
 - LDAP Browser
 - LDIF Editor
 - Schema Editor
 - Integrated ApacheDS
 - Configuration for ApacheDS





- Scenario:
 - Productive LDAP server exists
 - Company cars should be managed
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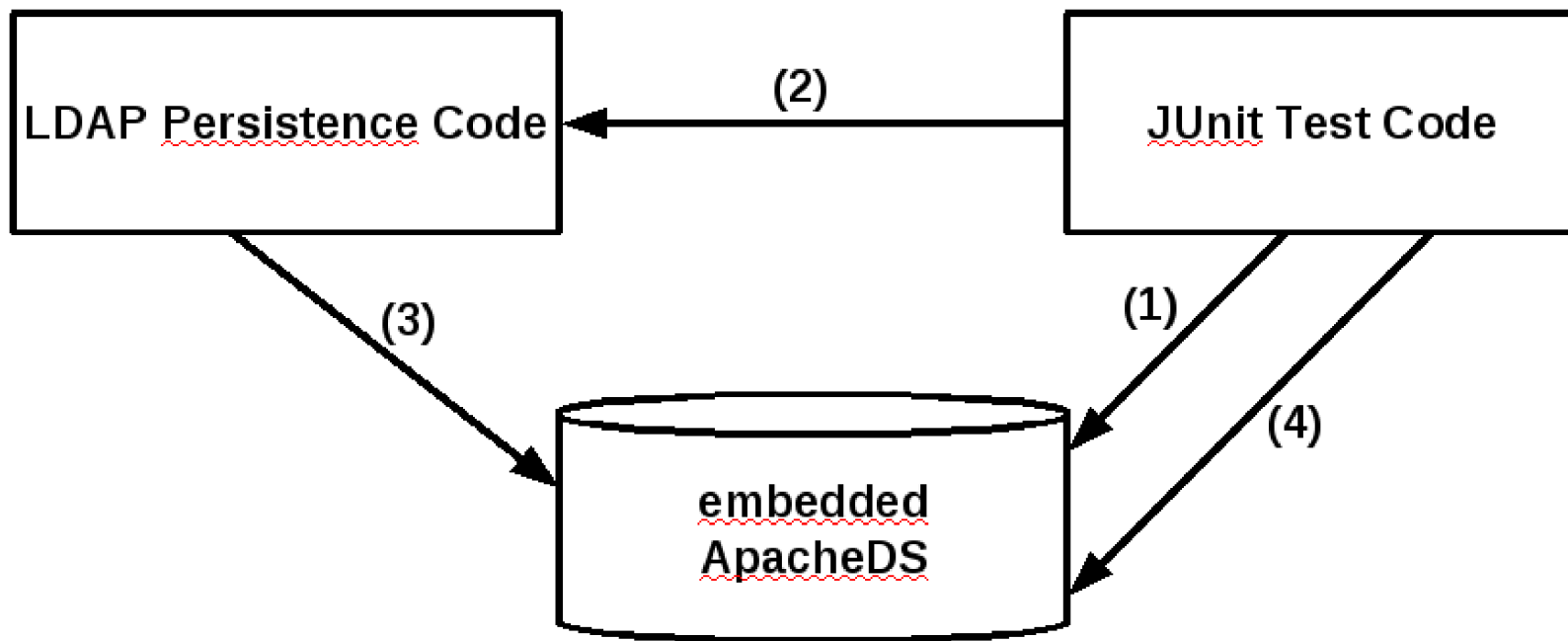
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Conclusion & Discussion

- Apache Directory Studio 1.5.0 to be released
 - Browser: certificate validation, Kerberos AuthN
 - Browser: entry editors
 - Schema Editor: load online + merge
 - ApacheDS: integration of ApacheDS 1.5.5
- Future improvements:
 - Code generators, IDE plugins
 - Graphical editors
 - Proxy to analyze LDAP requests
 - Record and replay of tests
- Your opinion and requirements



- Apache Directory Project and Server:
 - <http://directory.apache.org/>
- Apache Directory Studio:
 - <http://directory.apache.org/studio/>
- Paper, slides, examples
 - <http://github.com/seelmann/ldapcon2009-apache-directory>