Introducing JCOB™

Java Cobol Facility

JCOB™ V2 Standard Edition *for* Windows/ Linux / Aix / Zos

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JCOB™
"Java Cobol facility". HOST integration simplified.

Data exchanges with Z / OS are far from declining. Legacy remains the services repository in the world of Banking and Insurance. JCA provides a standard response in terms of connectivity between J2EE world and Mainframe. However JCA does not cover either of reading / writing of exchanged data. Moreover, no standard supports this function. Having an efficient solution, adaptable with the development process of the company without degrading the long-term sustainability is a recurring demand from technical services to which **JCOB ™** provides simple answers and complete integration required by Host application services.

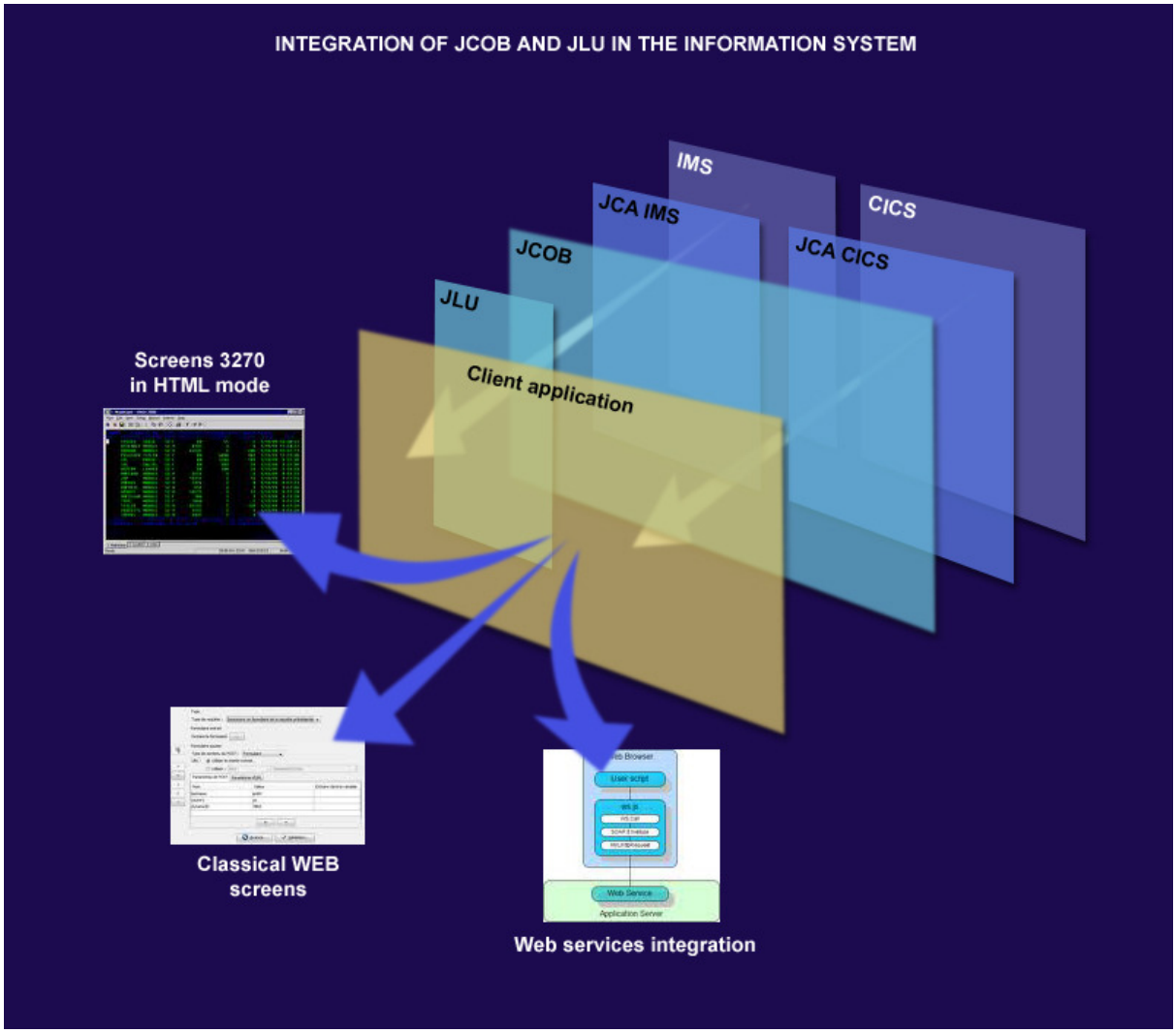
JCOB™ solution provides all the features in order to manipulate Mainframes data

- ✓ Retrieval of every COBOL CopyBook and all NATURAL PDA within JAVA applications.
- ✓ Support of all EIS services flows and LU-TYPE 0/2 flows.
- ✓ ZOS/IMS, ZOS/CICS, MICROFOCUS support.
- ✓ Accessors initialization inside J2EE server or Eclipse via simple Copybook transfer.
- ✓ Synchronous and asynchronous flows.
- ✓ Offline mode unit testing from XML files.
- ✓ Zone / field completion in Eclipse (native mode).
- ✓ Automatic generation of an interface to access Z/OS flows through XML Webservices.

Characteristics of the data covered by JCOB™

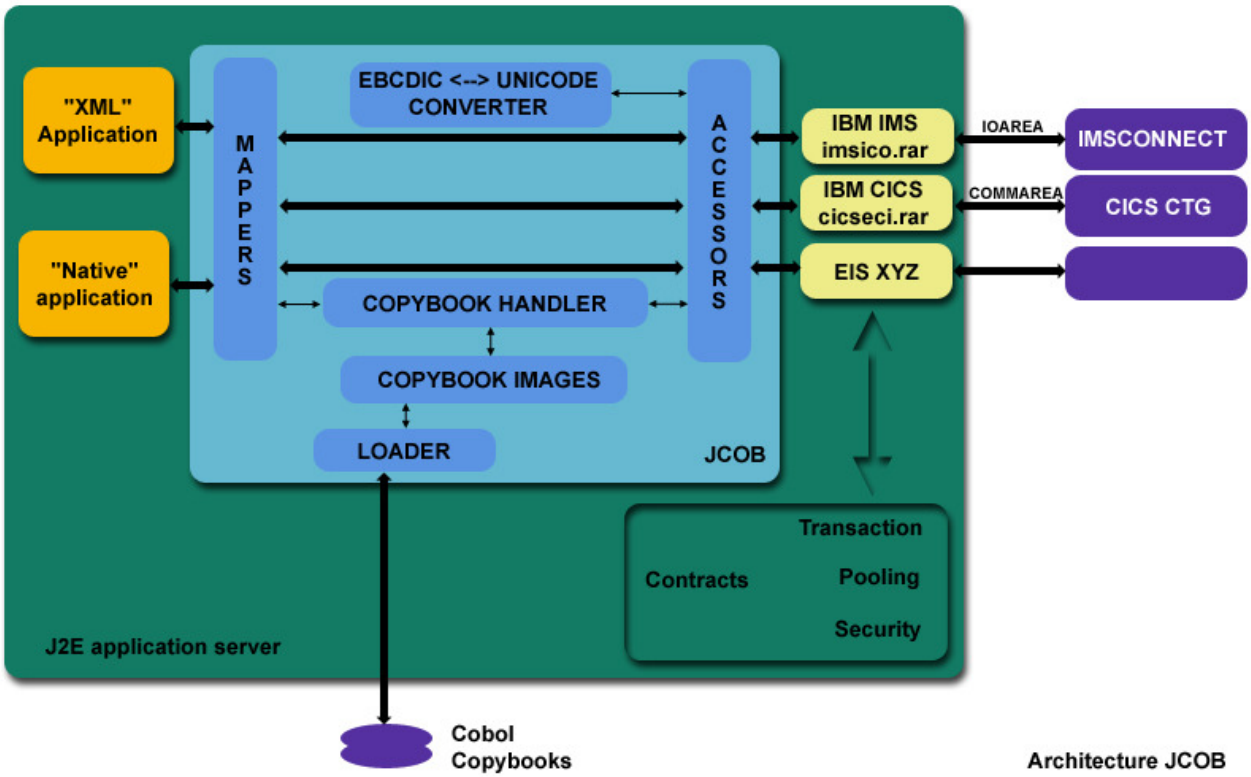
Generally, recovering existing Mainframe applications does not allow a good visibility of structures types used in COBOL applications. Using a tool to deal with all scenarios is imperative. **JCOB**™ covers the completeness of all COBOL and NATURAL data types, for example:

- ✓ Alphabetic and alphanumeric
- ✓ External numeric
- ✓ Binaries and packed (BINARY, COMPUTATIONAL, COMPUTATIONAL-3, COMPUTATIONAL-4)
- ✓ Floats (COMPUTATIONAL-1, COMPUTATIONAL-2)
- ✓ Structures redefinition
- ✓ n dimensions Arrays



JCOB™ relies on components of the JCA standard, J2EE Standard for "Connecting Java Architecture"

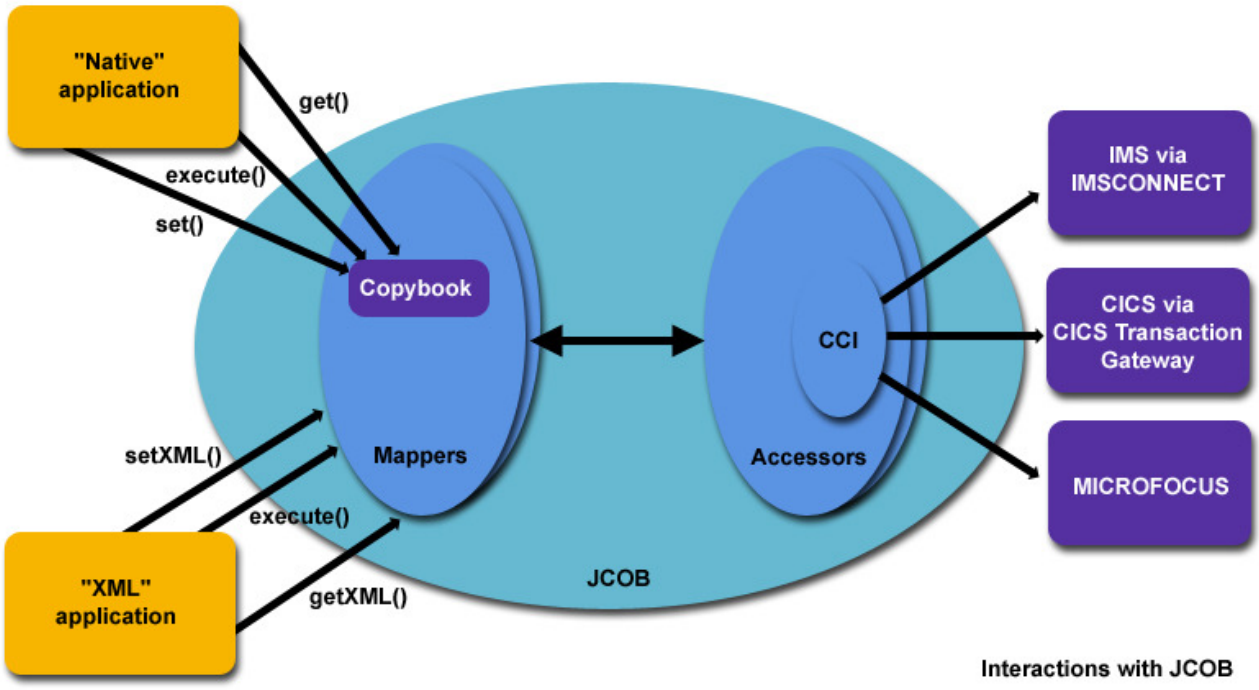
JCOB™ is not a JCA connector. It exploits the benefits of JCA standard in terms of ability to connect to every *Entreprise Information System* (IMS, CICS, MICROFOCUS etc.) and of operability within J2EE servers. JCOB™ provides the abstraction layer for data access regarding the particular structure of fields for each software publisher: IBM, SAG, Microfocus. Version change of an EIS requires no upgrade of JCOB ™.



Architecture JCOB

Simple data access functions

Access to Mainframe data requires only two types of functions (or methods) to read/write data (getters/setters) and to call the remote service (execute). JCA mechanics and CCI language to access the Enterprise Information System's Resource Adapter are then made transparent.

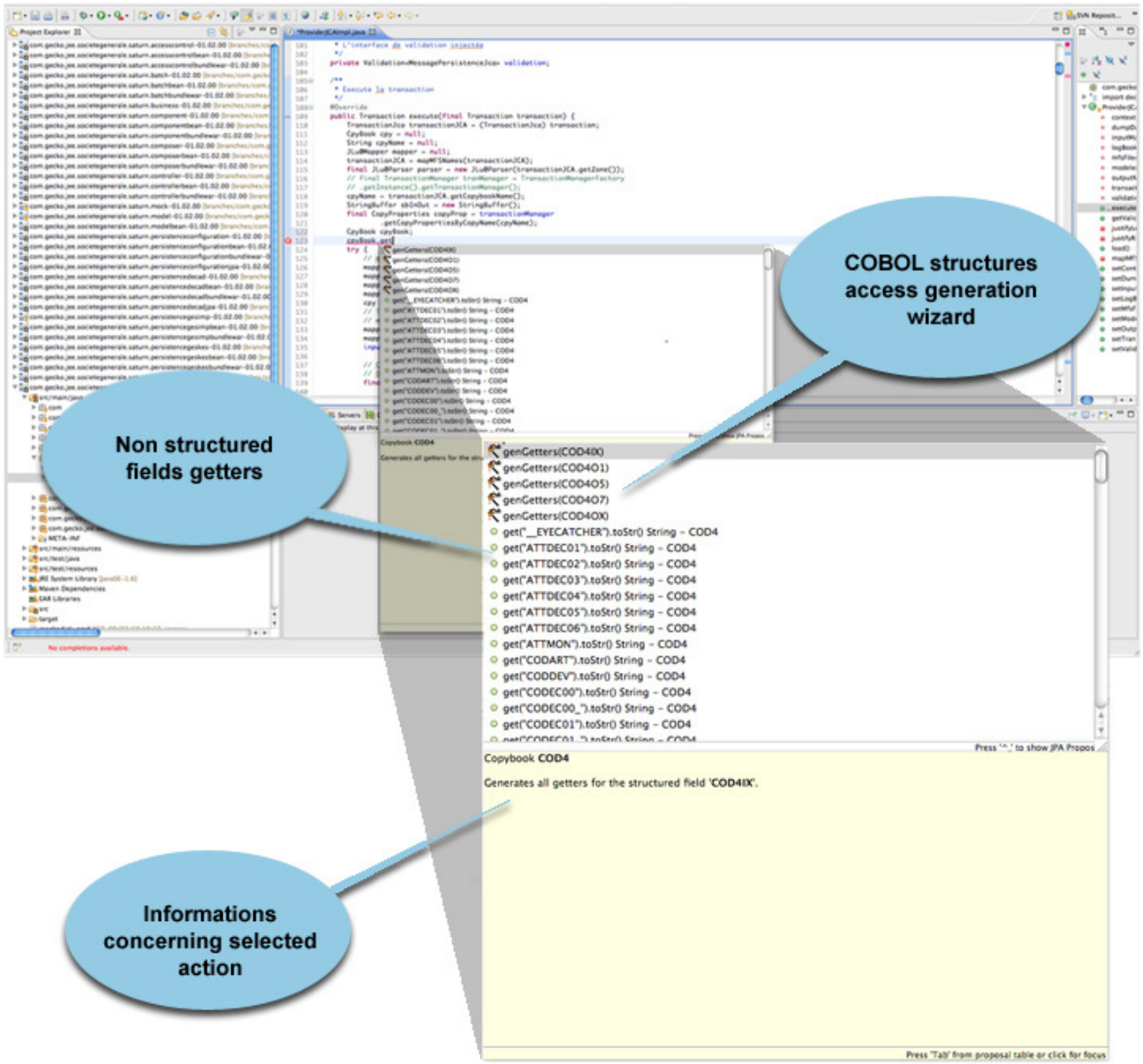


Interactions with JCOB

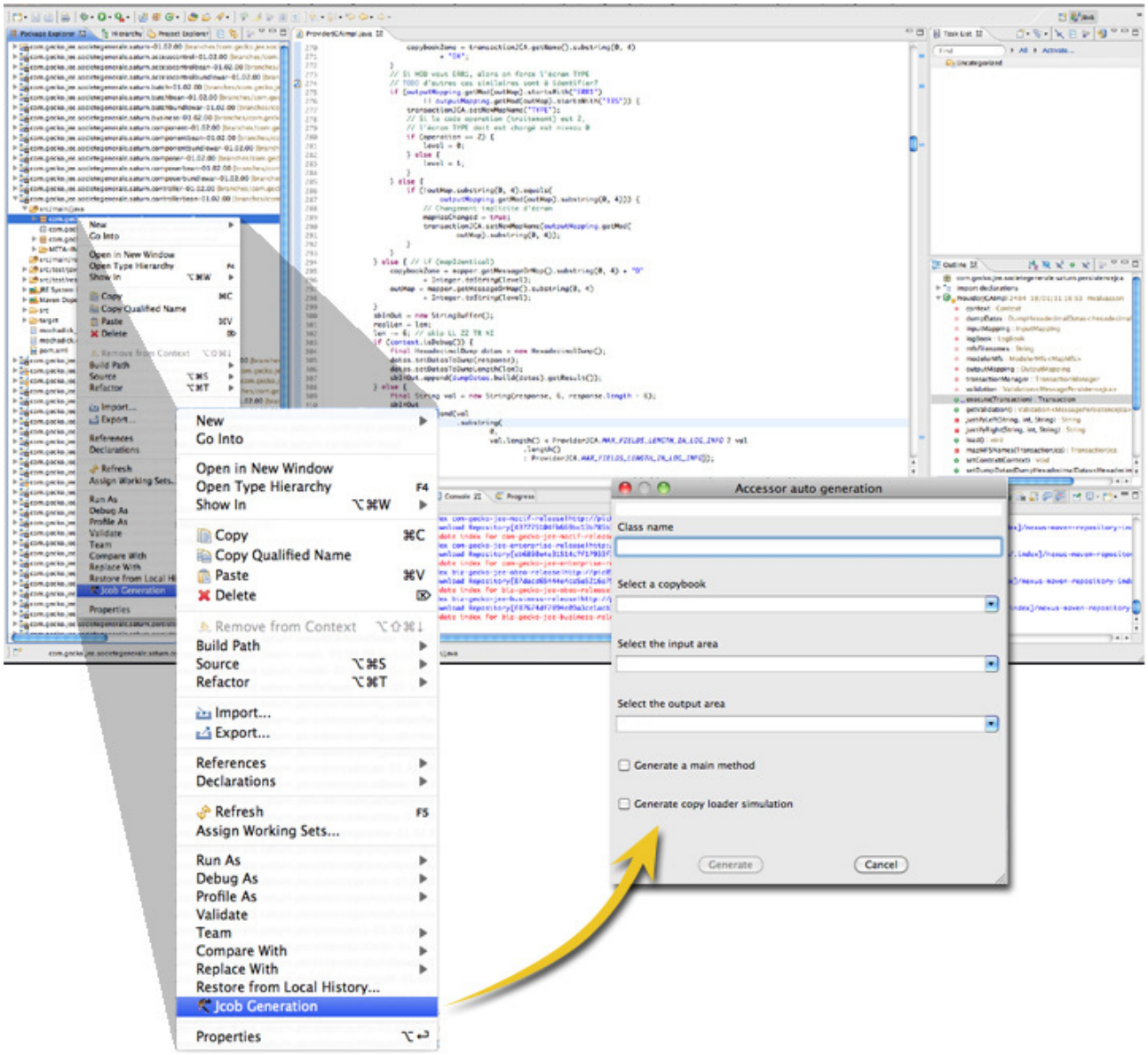
Integration in Eclipse

JCOB™ fits as a simple project within Eclipse. Monitoring tools and unit testing allow the developers to work without Mainframe connection and without any risk of error in names of data structures.

JCOB Eclipse Plugin includes an auto completion of COBOL areas names and wizards to generate source code corresponding to COBOL structures...



… as well as a wizard to generate a full class from a selected copybook.



Prerequisites

- ✓ JVM 1.4 +
- ✓ Z/Os – AIX - Linux - Windows