Architect of an Open World™

HooX GCOS 7 Connector for J2EE™

HooX is a family of standard J2EE™ products comprising not only the connectors for GCOS 7, but also those for GCOS 8 and IBM, together with the support of asynchronous exchanges with HooX JMS.

Why use HooX GCOS 7 Connector for J2EE™?

- To integrate existing GCOS 7 applications into a global Internet architecture, while at the same time conserving their security and data integrity levels. HooX GCOS 7 Connector for J2EE™ is based on the J2EE™ Connector Architecture specifications. These specifications define the Java connectors allowing access to heterogeneous host systems via Application Servers.
- To rapidly develop new Internet applications, together with the different components of multi-tier architectures.

Principal characteristics

HooX GCOS 7 Connector for J2EE™ allows:

- The re-use of existing GCOS 7 applications in FORMS (screen) or message (line) mode with no modifications related to Internet development
- With little or no impact on the GCOS 7 applications
- While benefiting from the tools available with the product and also from those provided with the Application Servers
- And allowing developers to concentrate on the business logic of their application (with no thought for technical constraints, such as connection pool handling)
- With no GCOS 7 knowledge required for the development of new Java applications (business objects, …)
- While benefiting from the portability of new developments in the J2EE™ environment thus ensuring their longevity and allowing changes of platform and of Application Server.

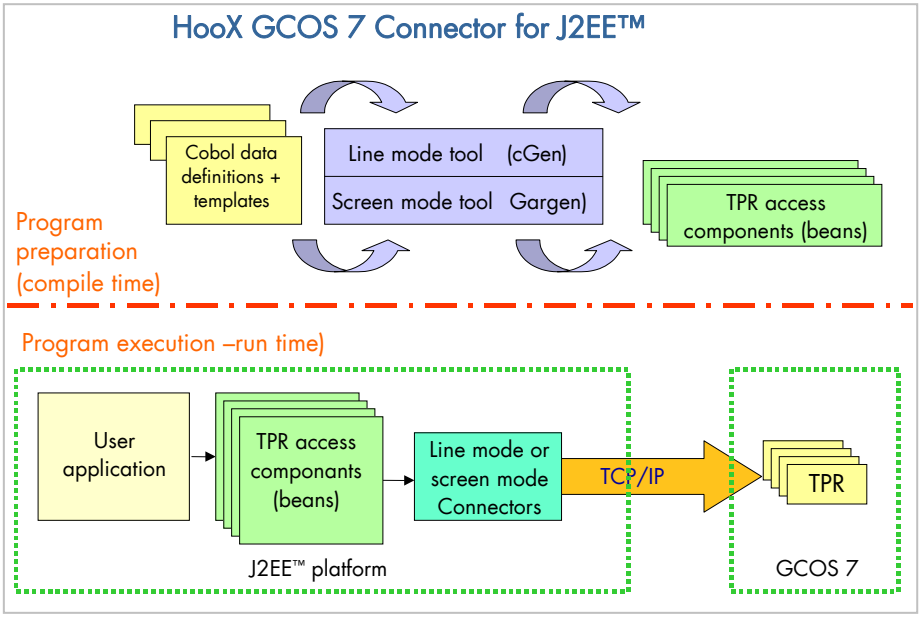
Components of HooX GCOS 7 Connector for J2EE™

There is no specific HooX component on the GCOS 7 side as the GCOS 7 applications see only a DSA or TCP/IP correspondent (according to the liaison chain used). The product comprises the following elements on the Java platform where the Application Server is installed:

- A message mode connector for the handling of TDS-DSA or TDS-TCP/IP sessions
- A FORMS mode connector for the handling of TDS-DSA sessions

- A component generator (cGen) for message mode which generates TPR access components in message mode, starting from the existing Cobol data structures and an EJB model
- A FORMS and TPR dialogue analyzer (Gargen) which generates EJB skeletons for accessing TPRs in FORMS mode and which is based on Glink for Java from Gallagher and Robertson.

Architecture and tools



Technical specifications

ENVIRONMENT

GCOS 7 (DPS 7000/TA, DPS 7000/XTA and NovaScale 7000)

Existing TDS applications

Intermediate Java Platform

An Application Server in conformity with the J2EE™ 1.3 standard

Client workstation

Browser or any other client able to access an Application Server

Packaging

The product is delivered as a componant of the Interop7 CD

Bull validation

JOnAS 4.0 (integrating Tomcat)
WebLogic Server (versions 6 et 7)

FUNCTIONS

EJB skeleton generators

Two tools (cGen for message mode and Gargen for FORMS mode) allowing the generation of skeletons for Java applications in conformity with the Cobol data definitions of the GCOS applications

J2EE™ connectors for accessing GCOS 7 transactional applications

Two connectors (one for message mode and one for FORMS mode) providing access to TDS transactions on GCOS 7

For further information, contact your commercial interface or the NovaScale GCOS Competence Center.

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