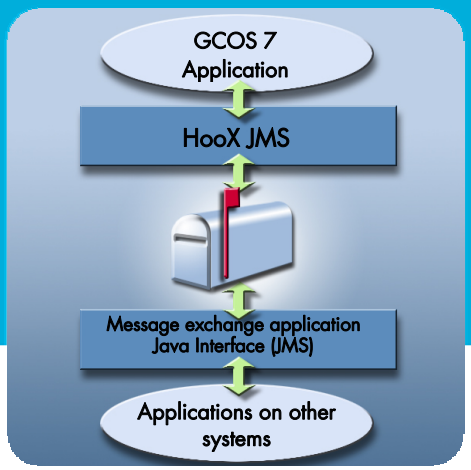


Architect of an Open World™

HooX JMS GCOS 7

HooX JMS allows the exchange of messages in asynchronous mode between GCOS 7 applications and other applications executing on different platforms or systems, via an Application Server.

The JMS product (Java Message Service)

JMS provides Java applications with an interface for sending and receiving messages while guaranteeing that the information is transferred correctly once and only once.
At its creation, JMS was part of the J2EE™ specification. It is at the same time a major technology influenced by the principal providers of MOM (Message Oriented Middleware) and has facilities comparable to those of the principal MOM products.

What does HooX JMS do?

HooX JMS allows GCOS 7 applications to exchange messages, in asynchronous mode, with other applications on other platforms or systems, via an Application Server.
HooX JMS is an alternative to XA, guaranteeing in a much simpler way the security of message transfer between GCOS 7 and the open world. The product ensures that all messages are delivered once and once only. This allows, for example, the slightly deferred updating of information contained in IDS/II or UFAS databases on GCOS 7 and Oracle in the open world.
The extreme ease of implementation allied with the simplicity of its access interface makes HooX JMS a very efficient product.

HooX JMS facilities

A JMS gateway transfers messages from the JMS queues to the GCOS 7 ones and vice versa.
The protocol used (Assured Transfer Protocol) guarantees the reliability of the message exchanges.
HooX JMS is based on HooX GCOS 7 Connector for J2EE™.

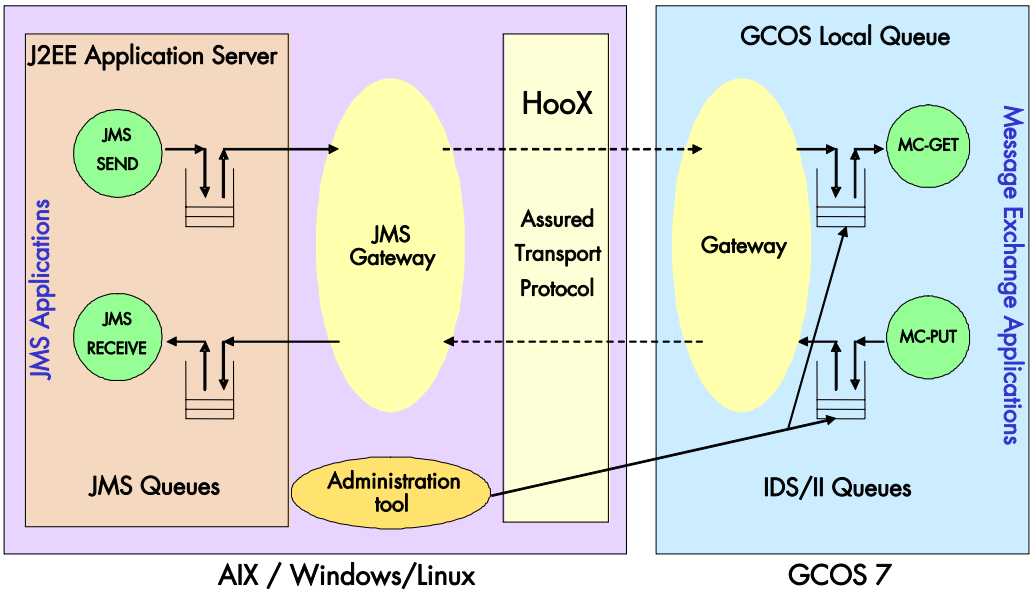
Components of HooX JMS

On GCOS 7:
- A transfer transaction with specific TPRs
- A COBOL API for reading from and writing to the LQAPI message queue

On the Application Server platform:
- A transfer gateway
- The standard Java API for accessing the JMS queue.

Architecture

HooX JMS Architecture



Technical specifications

ENVIRONMENT

GCOS 7 (DPS 7000/TA)

Transfer transaction Interop7 I5321 + HXJMS7_3

GCOS 7 (DPS 7000/XTA and NovaScale 7000)

Transfer transaction Interop7 ID420

Java Platform

AIX, Windows, Linux
JDK 1.3.1 minimum Interop7 ID420
Java gateway

Application Server

An Application Server in conformity with J2EE™

Bull validation

JOnAS 4.1
WebLogic Server, version 7

Communications

TCP-IP network

FUNCTIONS

Automatic message transfer activation based on:
- the notion of thresholds for the GCOS 7 or JMS queues
- regular queue surveillance
- starting times pre-defined by the administrator

Automatic execution when the threshold is reached on the queue:
- of TPRs on GCOS 7
- of Web Services on the Application Server side

API for JMS

Standard API

Cobol API for GCOS 7

LQAPI, whose functions are listed below

- **MC_INIT**
  to initialize access to a message queue
- **MC_TERM**
  to terminate access to a message queue
- **MC_SEND**
  to write a message to a queue
- **MC_RECEIVE**
  to read a message from a queue

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

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