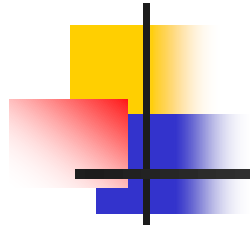


Ambiente JADE

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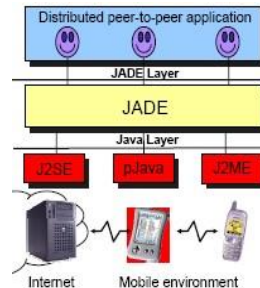


Contenido

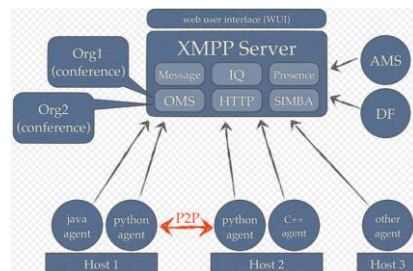
- Ambiente JADE

Plataformas para SMA

- JADE (en java)



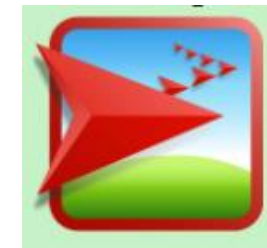
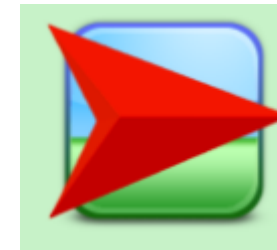
- SPADE (en Python)



- MadKit (en java)



- NetLogo (en java)



Pagina Web

- <https://jade.tilab.com/>



The screenshot shows the homepage of the JADE (Java Agent DEvelopment Framework) website. The header features the JADE logo and a navigation menu with links: Home, Documentation, Support, Download, Developers, News, and Related Projects. The main content area is titled "JAVA Agent DEvelopment Framework is an open source platform for peer-to-peer agent based applications". It describes JADE as a software framework implemented in Java, simplifying multi-agent system development. It mentions features like FIPA specifications, graphical tools, remote GUI, and agent mobility. A "Latest news" section lists releases: JADE 4.5 and WADE 3.6 (08/06/2017) and JADE 4.6, WADE 3.8, and AMUSE 1.5 (23/12/2015). A "Jade Book" section shows the cover of the book "developing multi-agent systems with JADE" and mentions it can be ordered from Wiley. The footer includes a note about LEAP project versions and a list of supported environments like Android and J2ME-CLDC MIDP 1.0.

JADE

Home Documentation Support Download Developers News Related Projects

JAVA Agent DEvelopment Framework

is an open source platform for peer-to-peer agent based applications

JADE (Java Agent DEvelopment Framework) is a software Framework fully implemented in the Java language. It simplifies the implementation of multi-agent systems through a middleware that complies with the [FIPA specifications](#) and through a set of [graphical tools](#) that support the debugging and deployment phases. A JADE-based system can be distributed across machines (which not even need to share the same OS) and the configuration can be controlled via a [remote GUI](#). The configuration can be even changed at run-time by moving agents from one machine to another, as and when required. JADE is completely implemented in Java language and the minimal system requirement is the version 5 of JAVA (the run time environment or the JDK).

Besides the **agent abstraction**, JADE provides a simple yet powerful **task** execution and composition model, peer to peer agent **communication** based on the asynchronous message passing paradigm, a **yellow pages** service supporting publish subscribe discovery mechanism and many other advanced features that facilitates the development of a distributed system.

Thanks to the contribution of the LEAP project, ad hoc versions of JADE exist designed to deploy JADE agents transparently on different Java-oriented environments such as **Android** devices and J2ME-CLDC MIDP 1.0 devices.

Latest news

- JADE 4.5 and WADE 3.6 have been released 08/06/2017
- JADE 4.6, WADE 3.8 and AMUSE 1.5 have been released 23/12/2015

Jade Book

Developing Multi-Agent Systems with JADE can be ordered from [Wiley](#)



¿Qué es JADE?

- Jade es básicamente dos cosas:
 - Una plataforma: que permite “VIVIR” y “CONVIVIR” a los agentes dentro de ella.
 - Un conjunto de herramientas para el desarrollo de agentes y sistemas de forma rápida.
- Java Agent DEvelopment framework



Estándares

- Foundation for Intelligent Physical Agents (FIPA)
 - Arquitectura: Integración de diferentes aplicaciones, incluso con plataformas de diferentes propietarios.
 - Lenguaje de comunicación empleado FIPA-ACL.
 - Servicios de agentes: ciclo de vida, páginas blancas, páginas amarillas, transporte de mensajes,...
 - Conjunto de herramientas gráficas que soportan la depuración y ejecución de agentes (RMA, sniffer, ...)

FIPA: Arquitectura básica

- Plataforma distribuida
- Comunicación entre plataformas
- Protocolos estándares
- Internet

