



## Java™ Development Environment

Each Aphelion JDE is a complete development environment derived from IBM's [Workplace Client Technology MicroEdition](#) (WCTME) product family, the relevant components of which, such as the [WebSphere Studio Device Developer](#) (WSDD) and the [Micro Environment Toolkit for WebSphere Studio](#) (METWS), are included, fully or partially, in each JDE according to the needs of a given customer. In addition, each JDE is customized to work seamlessly with the corresponding (targeted at the same RTOS/processor platform) [JRE](#) (Java Runtime Environment).

JDEs are available in Windows/x86-hosted or RedHatLinux/x86-hosted configurations, each comprised of the following main components:

DOTA "standard" configuration of IBM's [WSDD](#).

DOTA plug-in interface for the corresponding JRE, which allows the use of JDE GUI to remotely start and control the runtime execution of this JRE on a target RTOS/processor platform, as long as such a platform is connected to the host platform of JDE.

DOTPlug-in interfaces for the C/C++ compiler, assembler, linker, archiver and other tools and utilities from a toolkit of RTOS vendor, needed for compiling, assembling, and linking into the JNI-compatible forms (JNI - Java Native Interface) the C/C++ "native methods" used in Java classes from customer's Java applications and in ports of Java class libraries and API packages included in the corresponding JRE. Each plug-in interface allows the use of JDE GUI to start and control the execution of a tool or utility serviced by this interface.

DOTRTSJ-compliant RTOS/processor-targeted AOT compiler, if the corresponding JRE is compliant with the [Real-Time Specification for Java](#).

Apogee can also include in a given JDE the following optional components obtained from IBM or various third parties:

DOTCustomer-requested tools and tool packages from IBM's [METWS](#), such as:

- o The [Service Management Framework](#) (SMF) Bundle Development Kit, a full implementation of the OSGi Service Platform, which facilitates the use of JDE for creating Java applications in form of OSGi bundles.
- o The SyncML4J bundle for implementing the SyncML Data Synchronization and Device Management protocols in Java applications created with JDE.
- o Packages allowing the access to IBM's DB2 Everyplace and DB2 Cloudscape relational databases.

DOTThe [mPower Remote Manager](#) (mPRM) from ProSyst Software providing the "server side" support for the OSGi platform.

DOTThe server-side support for the [OpenFusion](#) RT CORBA from PrismTech Corporation, or the server-side support for the [ORBexpress](#) CORBA package from Objective Interface Systems.

Each JDE is then fully usable for:

- i creating all types of Java applications targeted at the corresponding JRE;
- ii building the executable forms of such applications;
- iii downloading the executable forms on to the JRE for runtime execution;
- iv remotely debugging the executable forms on the JRE;
- v tuning the executable forms of deployment-ready applications for small runtime footprint; and
- vi tuning the executable forms of deployment-ready RTSJ-compliant applications for fast runtime execution.

The target-dependent tools of each JDE (for example, the execution profiler/analyzer) are retargeted by Apogee at the RTOS/processor platform supported by this JDE.

Each JDE comes with the corresponding (targeted at the same RTOS/processor target platform) [JRE](#) in form of a remote (target-resident) "plug-in" component of the JDE, unless a given customer prefers to get such a JRE in a stand-alone configuration.



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