

# MOTODEV Studio Plug-in/SDK for Java™ ME v3.0

## Release Notes

For the latest version of these Release Notes, see the [MOTODEV](#) web site.

### ***ECCN 5D002.a***

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### ***Introduction***

Continuing Motorola's commitment to Eclipse-based technologies and the Eclipse community, Motorola has integrated significant parts of MOTODEV Studio for Java ME into Mobile Tools for Java and the Eclipse Pulsar project. With Version 3.0, what was formerly MOTODEV Studio for Java ME is now available as a plug-in to Eclipse Pulsar, which offers the same perspectives and tools to which MOTODEV developers have become accustomed. Install the plug-in using the Mobile SDKs view within Eclipse Pulsar.

MOTODEV SDK for Java ME continues to be a stand-alone product and remains available from the MOTODEV web site.

### ***Prerequisites***

MOTODEV Studio Plug-in/SDK for Java ME is fully tested for compatibility with the following system. Although MOTODEV Studio Plug-in/SDK for Java ME may be compatible with other systems, Motorola offers support only for the systems described below.

- Linux
  - Java SE Runtime Environment (JRE) version 1.5 or later
  - Ubuntu 8.04, SuSe Enterprise 10 SP2, Red Hat Enterprise 5.0 and Fedora 9.0 distributions (using GNOME or KDE).
- Windows
  - Microsoft® Windows® XP SP3 or Windows Vista
  - [Java SE Runtime Environment \(JRE\) version 1.5 or later](#)
  - [QuickTime 7.1](#) or later is required for JSR 135 to play the following media types: .aac, .amr, .m4a, .mp3 and .mp4
  - [Java Card Development Toolkit 2.2.1](#) is required for the SIM Config service
  - [Windows Media Player](#) must be installed to execute the Metadata Control functionality when that functionality is used in a MIDlet.


- [Motorola USB driver](#) is required to use the MOTODEV Config Tool
- Mac OS
  - Mac OS X 10.5.4 or higher
  - 1.0GHz or greater processor
  - 1GB RAM or more
  - Approximately 2GB hard disk space
  - [Latest](#) Java Runtime Environment (run Software Update to obtain it)
  - [The XQuartz X11 Package](#), the latest version for your release of Mac OS (an optional installation available on the OS installation disks)

## Installation

To install MOTODEV SDK for Java ME v3.0, you must download and run the installation file. You cannot update from version 1.x or 2.x to version 3.0 by using the built-in update management system.

To install MOTODEV Studio Plug-in for Java ME v3.0, you must first install and run Eclipse [Pulsar](#). Then go to the Mobile SDKs view and double-click **MOTODEV Studio**.

Due to a Pulsar bug (that has been fixed in the upcoming SR1 release), if the MOTODEV Studio Plug-in for Java ME v3.0 does not appear in the Mobile SDKs view, do the following:

1. Open the **Available Software Sites** preferences dialog (under **Install/Update** in the list of preferences).
2. Select **MOTODEV Studio for Java ME** from the list of sites, and click **Remove**.
3. Click **OK** to close the Preferences dialog.
4. In the Mobile SDKs view, click  (Refresh SDKs list).

### Installation on a Mac OS Host

Although Motorola has tested both the Cocoa and Carbon versions of Pulsar, due to a number of known issues with the underlying Eclipse in the Cocoa version Motorola suggests that you install the Carbon version instead.

**IMPORTANT:** On Mac OS X, after you install MOTODEV SDK for Java ME *but before you use the update management system to download any additional or updated content*, back up `launchpad/configuration/config.ini`. Then, update the SDK and, before restarting, restore `config.ini`.

## Compatibility with MOTODEV Studio/SDK for Java ME v1.x, Windows version

A workspace created with MOTODEV Studio for Java ME v1.x is not compatible with version 3.0. You must import past projects into the new workspace with File > Import > Java ME > EclipseME Project.

For further details please refer to the Help Contents, under Java ME Development User Guide / Reference / Wizards / Import EclipseME Projects.

# **Highlights in MOTODEV Studio Plug-in/SDK for Java ME v3.0**

## **Added Features**

- **JSR 177 JCRMI support:** An API that enables you to establish a connection with a smart card using remote method invocation.
- **Generic Devices support:** Devices that simulate the features and behaviors of a family of real devices.
- **MTJ 1.0 Integration:** MOTODEV Studio for Java ME is now integrated with MTJ 1.0. Due to duplication of functionality, the Device view was removed from MOTODEV Studio Plug-in. MIDlet execution must be done through MTJ.

## **Supported Devices**

In past versions of MOTODEV Studio/SDK for Java ME, device support has been specific to particular handsets. With version 3.0, device support is generalized and grouped according to key features of handsets.

- G24-J HMI
- G24-J OEM
- GENERIC CANDYBAR – Handsets with a candy bar form factor
- GENERIC FLIP – Handsets with flip screen covers
- GENERIC QWERTY – Handsets with QWERTY keyboards
- GENERIC ROUND – Handsets with round displays, such as Motorola Aura
- GENERIC TOUCH – Handsets with touch-sensitive displays, i.e., touch screens

## **Features**

- **Video Playback:** Supports MPEG-1 and AVI video files (Windows only).
- **Keyboard input:** Enables you to use the keyboard as input for the Emulator
- **Supported Hosts:** Linux, Windows and Mac OS
- **Base Platform for MOTODEV Studio Plug-in:** Eclipse 3.5
- **IDE Support by MOTODEV SDK:** UEI-compliant IDEs, including Eclipse 3.x and up with v 3.5 recommended
- **JSR 180 Service:** Emulates a SIP server to make it easy to develop MIDlets that use JSR 180
- **On-device debug Tool:** Debug on Motorola OS and Mobile Linux devices (Windows only)
- **Deployment Tool:** Enables you to send an application to a handset and trace application download and execution.
- **Bluetooth Remote Control Service:** Provides a remote control mechanism to send video and audio events to a device.
- **Internationalization Tool:** Provides a standard way to internationalize mobile applications for the Java ME platform.

- **Network Proxy:** Provides a way to configure a network proxy server.
- **Landmark Storage Service:** Provides a way to manage the main Landmark Storage configuration file, allowing MIDlets that use JSR 179 to access stored information. You can now register, exclude, research and exhibit landmarks.
- **G24:** MOTODEV Studio Plug-in/SDK for Java ME supports Java ME development for Motorola G24 wireless modules. Users can choose a G24 device from the handset list to emulate G24 behavior.
- **Java ME Emulator:** uses the Java Runtime Environment to simulate the MIDlet environment in Motorola handsets, with an interactive "skin" of the handsets.
- **Bluetooth Service:** enables Bluetooth communication among multiple emulated handsets.
- **WMA Test Server:** enables multiple emulated handsets to send and receive SMS and MMS messages.
- **Location Service:** simulates a set of geographical locations integrated with the JSR 179 Location API. It reads a script file containing a specific route of geographical locations and upon request provides information about the current geographical location, such as longitude, latitude, altitude, speed, and course.
- **Libraries for Java ME development for Motorola handsets:** include CLDC 1.1, MIDP 2.0, JSRs 75, 120, 135, 172, 177, 184, 185, 205, and Motorola-specific APIs, such as Secondary Display API and Scalable Image Enhancements (not all APIs are supported on all hosts; check the Known Issues section for restrictions).
- **Update Management:** keeps installed components up to date; responsible for authenticating the user, downloading, and installing new features.
- **Sample MIDlets and tutorials:** Includes numerous sample MIDlets that illustrate various programming techniques.
- **Context-sensitive Help and Integrated documentation:** includes API reference and user guides.
- **NetBeans support** in MOTODEV Studio Plug-in for Java™ ME with the ability to import NetBeans Projects into the current workspace. (MOTODEV Studio Plug-in for Java ME Only)
- **SIMConfig Service:** Allows the user to create SIM card configurations that can be used with emulated handsets. Presented as a view in MOTODEV Studio Plug-in for Java ME. (Windows only).
- **Signing Tool:** Allows you to import certificates and then sign MIDlet suites with them. Consult Motorola's [application testing and signing](#) procedures for Java ME for details.
- **Config Tool:** Provides an easy way to read/write some specific internal Motorola handset configurations, e.g., read IMEI and UID and both read and write JAL and KDWP flex bits. (Windows only).
- **Certificate Manager:** Allows you to manage the emulator certificates used to establish secure network connections with HTTPS and SSL protocols.
- **Javadoc available within file editor:** Allows you to view API reference documentation directly from the source code.

## APIs

- G24 moto2moto
- JSR 118 - MIDP 2.0
- JSR 120 - Wireless Messaging API 1.0
- JSR 135 - Mobile Media API
- JSR 139 - CLDC 1.1
- JSR 172 - Web Services Parser
- JSR 172 - Web Services RPC
- JSR 177 - Security and Trust Services (APDU) (Windows Only)
- JSR 177 - Security and Trust Services (Crypto)
- JSR 177 - Security and Trust Services (PKI)
- JSR 177 - Security and Trust Services (JCRMI) (Windows Only)
- JSR 179 - Location
- JSR 180 - SIP API for J2ME
- JSR 184 - Mobile 3D Graphics
- JSR 185 - Java Technology for the Wireless Industry
- JSR 205 - Wireless Messaging API 2.0
- JSR 211 - Content Handler API
- JSR 226 - Scalable 2D Vector Graphics API for J2ME
- JSR 234: Advanced Multimedia Supplements
- JSR 234: Advanced Multimedia Supplements (Tuner)
- JSR 238: Mobile Internationalization API
- JSR 239: Java Binding for the OpenGL® ES API
- JSR 248 Full: Mobile Service Architecture
- JSR 248 Subset: Mobile Service Architecture Subset
- JSR 75 - Fileconnection
- JSR 75 - PIM
- JSR 82 - Bluetooth
- Motorola 3D (Windows only)
- Motorola Bluetooth Remote Control
- Motorola Funlights v2
- Motorola Get URL from Flex
- Motorola PIM Enhancements
- Motorola Scalable Image Enhancements
- Motorola Secondary Display

- Touch Sensor Music Player Buttons

## **Known Issues**

### **V3.0 All Hosts**

- Due to a UI limitation while displaying device images, Motorola recommends that you use a screen resolution of 1024x768 or higher.
- Due to an Eclipse bug regarding HTTPS repository sites and Java 6 ([Bug #6771432](#)), the update feature might not work if you have Java 6 Update 10, 11, 12 or 13. Please update to JDK or JRE 6 Update 14, which includes the fix.
- Every generic device implements JSR120, but it is not displayed because the JSR-205 implementation covers JSR120.
- Motorola recommends using the manual proxy configuration instead of automatically using the system settings.
- A maximum of five MIDlets per MIDlet suite can be deployed to a device running Motorola OS.
- The following media formats are not currently supported: .3ga, .3gp, .adif, .adts, .asf, .au, .awb, .m4a, .mpga, .ra, .ram, .rm, .wma.
- The ability of the Java ME emulator to play video files is constrained by the RAM on your system. The average supported file is around 1 minute long, at 30 fps with a 160 x 120 resolution.
- Loop playback is not supported on JSR 135.
- Full screen mode is not supported during video playback on JSR-135.
- Domain Policy is not enabled in PIM API. This functionality is responsible for asking the user if the MIDlet is allowed access to the file system.
- The Cref execution parameter “-t” was removed from the SIM Config view. If you want to run the Cref tool with that option, you must do so from the command line.
- The ROM path or filename specified in the SIM Config view cannot contain empty spaces. This is a Cref limitation.
- Uninstalling MOTODEV Studio Plug-in for Java ME 3.0 does not remove the product plugin files from Eclipse Pulsar plugins folder.

### **V3.0 Linux**

- JSR-177 APDU is not supported
- JSR-177 JCRMI is not supported
- JSR 177 PKI is not supported
- Motorola 3D API is not supported
- Video playback, AMR Audio playback, and Read audio metadata are not supported on JSR 135
- Both SIM Config and Config Tool are not supported
- Although they are displayed in the context-sensitive Help for Java ME Options, both SIM Config and Config Tool are only available on Windows host systems.
- WAV playback is not supported by Fedora 9.0.
- Installer custom icons are not supported (This is an InstallJammer limitation)
- Uninstall application may not remove product icon and menu entries on SuSe, Red Hat and Fedora.

### **V3.0 Mac OS**

- JSR-177 APDU is not supported
- JSR-177 JCRMI is not supported
- JSR 177 PKI is not supported

- JSR-184 and Motorola 3D APIs are not supported
- Video playback is not supported on JSR 135
- Both SIM Config and Config Tool are not supported
- Demo MIDlet Scene3D is not supported
- Welcome screen: The icon descriptions are incomplete. This is a Mac OS Eclipse issue.
- There is an Eclipse bug ([Bug #260644](#)) when updating the SDK and clicking yes to restart the SDK. The workaround is to make a backup of config.ini before updating the SDK and then restore config.ini after the update.

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- **InstallJammer**

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- **JAVA OPTIONAL PACKAGE J**

AVAX.COMM 3.0

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- **kxml parser**

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- **Sip-for-me**

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