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## <ALIGN=CENTERMicrosoft® SDK for Java™ 1.5.1 Release Notes

(Last Updated: 5/30/97)

### **Introduction**

Welcome to Microsoft SDK for Java 1.5.1 refresh release. This version of the SDK contains the latest released version of the Microsoft Virtual Machine for Java (build 1518). This version includes recent fixes for Java security issues. Functionality is otherwise similar to SDK 1.5. The end user license agreement for this SDK also permits redistribution of the Alpha version of the Microsoft VM.

For those who have not installed SDK 1.5, all SDK components release information are listed in the content section of this release note. Please see the online version of the release notes for the most accurate and timely information.

If you have previously installed the SDK for Java on your machine, we suggest that you update all files with this version by reinstalling the SDK. You should have Internet Explorer installed to use this VM and SDK, unless you plan to use NetScape® Navigator Plugin, which supports versions 2.x and 3.x of Navigator.

This SDK will enable you to write Java app[let]s based on both the Java™ language spec and the Microsoft Win32 VM functionality. The SDK documentation includes updated information describing working with the Microsoft VM for Java, standard and Win32 extensions of the Java class library, COM support and the included tools and utilities. You can download the entire SDK documentation from the Web. We also encourage you to participate in the news groups to post your comments and requests (more information below).

### **Installation Requirements**

This SDK has the same platform requirements as Internet Explorer (Microsoft Windows 95 or NT 4.0). Please download the latest version of Internet Explorer for development and testing (click to Download Latest Internet Explorer). You should make sure that you have the latest Java VM installed on your machine. The latest Java VM can be installed as an optional step when installing SDK, or by running the self-extracting executable IE30Java.exe, provided in the SDK \BIN directory, after the SDK is installed.

If you are interested in working with the Raw Native Interface (RNI) to integrate Java and native code and running the sample native code, you need to have a C compiler (Win32) installed and also have the Microsoft Win32 SDK on your system.

The DirectX class extensions require the DirectX, Version 2 (DirectX2) run-time components. If you don't have these components on your system, and you want to run the DirectX samples, you must install them. If you are running Windows 95, please download the self-extracting directx.exe file, then run that file to unpack the DirectX2 files, and then run dxsetup.exe. (Click to download the DirectX2 run-time). By default, Windows NT 4.0 contains all of the run-time components for DirectX2 with the exception of the Direct-3D extensions. You can install the Direct-3D beta run-time components from the Win32 SDK that shipped with NT 4.0. Note that if you install any DirectX components after installing this SDK, be sure to run reg.bat in the SDK's

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\\DirectX2\Direct directory to register direct.dll.

### **Redistribution Components**

Please refer to Redistribution List (REDIST.HTM) in the SDK for the full list of the redistribution files. You must read and agree with the SDK license agreement License Agreement (LICENSE.HTM) terms and conditions before you redistribute any component with your applications. Alpha VM redistribution is covered under the same license.

### **Contents of SDK**

The SDK download provides two options: SDK software(SDK-Java.exe) and SDK documentation (SDK-Doc.exe). Once you have installed the Java SDK on your system, you will see the following:

#### **Microsoft Win32 VM for Java:**

The latest release of IE30Java.exe supports the following products:

- Microsoft Active Server Pages (<http://www.microsoft.com/iis>)
- Microsoft Transaction Server (<http://www.microsoft.com/transaction>)
- Microsoft NT Service Pack II (NT Service Pack)
- Latest Microsoft Script Debugger for Internet Explorer (pre-release version included in the SDK)

Please make sure that you update your system with the latest Microsoft VM for Java if you did not updated this when you installed the SDK for Java 1.5.

You may redistribute the Win32 or Alpha version of the Microsoft VM for Java with your application by registering and agreeing to the SDK license agreement. You can find the self-extracting executable for the Microsoft VM and its binary files in the \MSJavaVm directory in the SDK. To get more information on working with the Microsoft VM for Java, please check out the SDK documentation on this subject.

#### **Class library:**

The SDK provides a rich class library of both Java standard classes and Win32 class extensions. For the full list of new classes and their functions, please refer to SDK documentation under the title Packages and Classes. For debugging purposes, this release of the SDK includes classed.exe, a self-extracting executable; run it to install the classes and sources on your machine.

To ensure that users have these latest class libraries, you may redistribute the file CLASSR.EXE which checks the version of the class libraries and updates as needed. You can find this file in the \MSJavaVm directory.

Pre-release code: Please be aware that there is a set of classes in this release that are pre-release quality:

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DirectX classes: this version of the class library includes a beta version of the DirectX2 class extensions (see "Known Issues" below). Please refer to the SDK license text on how to use pre-release code with your application. (Note: the beta version of DirectX2 class sources are not included.)

### Tools and Utilities

Here is the list of the tools and utilities that were updated or rebuilt for this SDK. For details, please check out the SDK documentation under the title Tools.

- **Navigator Plugin:** A utility to allow developers to develop Java application or applets that take advantage of the Microsoft VM for Java inside released versions of the NetScape Navigator browser. For instructions on using npmsjava.dll, please refer to npmsjava.htm under \NSPlugInSupport or in the documentation.
- **Cabarc.exe:** Compression utility for Java developers to package Java applications and classes for Web distribution. For instruction on how to use the tool, please refer to the SDK for Java 1.5 documentation. Compared to the previous version of CabDevKit, cabarc is a single tool used to create, view, and extract cabinets, and doesn't require complex scripts to create cabinets. It also supports wildcards and subdirectories.
- **Script Debugger for Internet Explorer:** Latest pre-release build of the script debugger, is supported by the Microsoft VM for Java in this SDK. It allows developers using Internet Explorer to debug Java, JScript, VBScript, and HTML. Please install it by running the self-extracting executable under \Script Debugger in this SDK. It is a self-contained, digitally-signed component, with it's own on-line user interface documentation. Be sure to read "Using the Microsoft Script Debugger with the Microsoft VM" in the Tools section of the SDK documentation to learn how to install and use the script debugger with Java code. Also, see the \Samples\ScriptDebugger sample directory for code to use to test out the debugger.
- **JVC.exe:** Latest Java compiler which was released with Microsoft Visual J++ 1.1
- **Javatlb.exe:** A utility to convert OCX type library files into Java classes, which will be released with the upcoming version of Microsoft Visual J++ 1.1
- **NT Service Package:** A new set of classes that allows developers to write NT services in Java. Note that NT services are only supported on Windows NT and not in Windows 95.
- **JView.exe:** Java Application Viewer (added additional -D switch to allow access to the system property in SDK 1.5)
- **AppletViewer.exe:** Java applet viewer with internationalization enabled
- **ClassVue.exe:** A Java application for developers to view and debug classes
- **Jexegen.exe:** A new version of the tool to convert stand-alone Java application into native executable binaries

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- Msjavah.exe: Microsoft version of C header file generator, check documentation for usage
- Native.h: Updated header file for writing raw native code interface

## **APIs**

We have included descriptions of APIs for JIT, Debugger, Native Code Interface support (RAW and COM), and Invocation. Your feedback on these APIs is welcome. Please refer to the SDK documentation under the titles Java and COM, Raw Native Interface, and Working with Microsoft VM.

## **Sample Code**

We have included samples demonstrating Visual Basic applet scripting, COM integration, Microsoft class extensions, DirectX classes, class library version tracking, and Java version of debugger sample. In some of the sample directories you will find a readme.txt file that will help you understand the structure and design of these sample code. The documentation also provides an overview of each of the samples. The samples are meant to demonstrate the relationship of APIs, and are provided "as is." Please refer to the License Agreement on how to use sample code.

## **Known Issues**

### **Navigator PlugIn:**

When this plugin is used with Netscape Navigator 2.02, some drawing and repainting problems have been reported. This is not a defect in the plugin, but rather is caused by the fact that Navigator 2.02 does not always instruct child windows to repaint when necessary. The Navigator release notes advise reloading or resizing the page to force a repaint in these cases. However, this is not a feasible option for a Java VM plugin. The Microsoft VM for Java plugin utilize's its own network DLLs and cache. There is a known problem when navigating first to a file URL and then to an HTTP URL. There is a collision between the version of WinSock utilized by the Microsoft VM for Java plugin and the version of WinSock utilized by Netscape. To avoid this problem, always navigate to an HTTP URL first.

### **Script Debugger for Internet Explorer:**

SDK for Java 1.5 includes the latest build of the Script Debugger for Internet Explorer, to demonstrate the capability of mixed-language debugging supported via the Microsoft VM for Java. It is pre-release code, not for redistribution. We appreciate any feedback on this component. See the support section for details on reporting bugs.

### **Pre-Release Build of Script Debugger:**

Given the component is pre-release build quality, there may be bugs still need to be fixed when you intent to run it with current and future Internet Browser releases. It is not for redistribution at this time.

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#### DirectX:

1. Direct.dll: If your Java application uses the pre-release DirectX2 class extensions, you should also redistribute (install) Direct.dll with your application. Your application should also register Direct.dll with the system it runs on (via regsvr32.exe).
2. Direct-3D is not supported on NT4.0. The beta version of Direct-3D runtime libraries are available via the NT 4.0 SDK.
3. DirectPlay is not complete in this release. It will be provided in a future version of the SDK.

#### JVC:

In a few specific cases, if you use the same name for methods, variables, superclasses, interfaces, and classes, you may have conflicts at run time. For example, there will be no error issued for an ambiguous variable reference between superinterface and superclass when both have the same name. Classes with the same name but different cases will compile but will not create the second class and will not run under JVIEW. In the hardest to decipher cases, an error may occur when a duplicate class name is used because it is attempting to invoke the constructor for the original class. This will offset the error message reporting by several lines. The work-around is to not use the same names for classes, variables, interfaces, methods, etc.

#### **Bug Report and Developer Support**

Please use the on-line bug report provided in this SDK. Microsoft will screen the bugs on a regular basis, and will be working on bug fixes.

Visit the [www.microsoft.com/Java](http://www.microsoft.com/Java) site for the latest information on Microsoft and Java.

For an up-to-date list of Frequently Asked Questions (FAQ), visit the FAQ link.

For additional assistance with specific problems, please review and/or post in the newsgroup forum. [microsoft.public.activex.programming.java.sdk](mailto:microsoft.public.activex.programming.java.sdk). We will be actively monitoring and addressing issues in this forum. Also, consider using Microsoft Visual J++ as a development tool and as a comprehensive online Java reference.

To submit a bug report directly, please use the Bug Report link from <http://www.microsoft.com/java/sdk/>. You should receive a confirmation of your bug report; however, no further response should be expected. If a response is needed, please use the newsgroup previously mentioned.

If your issue is regarding JavaScript, please see <http://www.microsoft.com/jscript/> for more information or use the [microsoft.public.internetexplorer.scripting](mailto:microsoft.public.internetexplorer.scripting) newsgroup forum.

If you have any feedback regarding the Microsoft VM for Java, please send it [msjavavm@microsoft.com](mailto:msjavavm@microsoft.com). (This mail alias is monitored, but will receive limited response. Please use the news group forum above for any questions.)

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For feedback and comments, please send mail to [sdkjava@microsoft.com](mailto:sdkjava@microsoft.com) (This mail alias is monitored, but will receive limited response. Please use the news group forum above for any questions.)

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### Categories of Redistributable Files

The following categorization of redistributable files are described in this document.

1. Microsoft Win32 Java VM Files
2. Plugin for Navigator(c) files
3. SDK tools files
4. CAB Files
5. Sample Files
6. DirectX File
7. General Redistribution Information

#### 1. Microsoft Win32 Java VM

You can either redistribute **IE30Java.exe** (self extracting executable) in the SDK \bin directory or redistribute the following binary files that are in MSJavaVM\x86 and \alpha directories:

msjava.inf  
jautoexp.dat  
javaDbg.txt  
javaEE.dll  
javasntx.dll  
setdebug.exe  
regsvr32.exe  
jit.dll  
javaprx.dll  
jdbgmgr.exe  
msjava.dll

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**msawt.dll**  
**vmhelper.dll**  
**javart.dll**  
**jview.exe**  
**wjview.exe**  
**mfc40.dll**  
**msvcrt40.dll**  
**classr.exe**  
**classd.exe**  
**javasup.vxd**

For current information on how to redistribute the latest version of Win32 Java VM, see our web site:  
<http://www.microsoft.com/java/>

## **2. Plugin for Navigator Files**

These files are provided with the SDK in the \NSPlugin Support directory:

**npmsjava.dll**: Microsoft VM for Java plugin to be used with Navigator

**npmsjava.htm**: Information on how to use the plugin with Navigator.

## **3. Tool Files**

These files are provided with SDK in the \bin directory except Native.h and Nativecom.h are in the \include directory (note Java compiler(jvc.exe), and pre-release version of Script Debugger for IE are not for redistribution):

**JView.exe**: Java application viewer with internationalization enabled

**AppletViewer.exe**: Java applet viewer with internationalization enabled

**JExegen.exe**: A tool to convert stand alone Java applications into a Windows executable (.EXE)

**JavaReg.exe**: A Java/COM registration utility

**JavaTLB**: A tool for generating Java classes from a variety of type libraries

**Msjavah.exe**: Microsoft version of C header file generator

**Native.h**: Header file for writing raw native code interface

**Nativecom.h**: Header file exposes public COM APIs used by the VM

## **4. CAB Files**

**cabarc.exe**: A utility that creates, extracts, and lists the contents of cabinet (CAB) files, containing multiple files.

**master.inf**: A template for the .inf file included in the CAB file and used by Internet Explorer when

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unpacking libraries.

## 5. Sample Code Files

The following sample folders are located in the \samples directory:

**AWT**

**Debugger**

**DirectX**

**Scripting**

**JExegen**

**JView**

**Native**

**Native\_com**

**Native\_raw**

**Script Debugger**

**Version**

## 6. DirectX File

The following file is required for redistribution if developer intend to use beta version of DirectX class library extensions, it is located in SDK \DirectX2\direct directory:

**Direct.dll**

## 7. General Redistribution Information

### Version Checking of Redistributable Files

Because other applications may redistribute earlier or later versions of the same files as redistributed with your application, it is important that you install newer versions of the files on top of older versions on your user's system, but not older versions on top of new versions. Typically, version checking is the responsibility of your setup program. If you do not have a setup program for your main application, then you must accomplish the version checking manually when installing the redistributable files on your user's system.

The programmatic technique for version checking varies, depending on which category of file you are redistributing. In each of the following sections, the version checking technique is described for each category of files. Briefly, the version checking techniques are as follows:

For the DLLs, use the standard version checking APIs available as a standard part of the Win32 API. The Win32 version checking APIs are beyond the scope of this article. For the Class library files, see sample Version, SDK has provided ClassR.exe in the \MsJavaVm directory for version checking as well.

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