

mBS Professional Edition - Supported Platforms

This document describes supported platforms for mBS Professional Edition. Every supported platform is a combination of a hardware, OS and JVM. Supported platforms are separated in three groups:

- **General platform requirements**
 - ✓ Basic criteria for selecting compliant client platform for ProSyst software.
- **Reference tested platforms**
 - ✓ Platforms on which all automated testcases were executed and all important checklists.
- **Other tested platforms**
 - ✓ Only basic testing were executed for essential operations related to framework startup, bundle lifecycle, etc.

1 General platform requirements

1.1 Hardware

- **Processor**
 - ✓ At least 100 MHz
- **RAM**
 - ✓ At least 16 MB
- **Storage - some type of storage required**
 - ✓ Flash
 - ✓ Hard disk, etc.
- **It is preferable to have some partition allowing rewriting so that changes can be persistent**

1.2 OS

- **There are no special requirements to the OS except support for a JVM (See below for JVM details)**
- **Desktop OS**
 - ✓ Windows
 - ✓ Linux
 - ✓ MacOS
- **Embedded OS**
 - ✓ Symbian,
 - ✓ Windows Mobile
 - ✓ Special Linux embedded distributions:
 - Monta Vista Linux

- Familiar
- ✓ QNX Neutrino
- ✓ LyncOS

1.3 JVM

- **J2ME CDC/Foundation Profile compatible JVM - This is equivalent to OSGi max profile**
- **J2ME CDC/Custom Profile as J9 RM or MAX profiles – RM is equivalent to OSGi mini profile**
- **pJava 3.1 compatible JVM**
- **Java SE compatible JVM**

2 Reference Test Platforms

2.1 PC

- **Windows**
 - ✓ JDK 1.4.2_09
 - ✓ JDK 1.5.0_10
 - ✓ Skelmir 2.8
 - ✓ PERC 5.0
 - ✓ J9 2.2 (foundation, max, rm profiles, jxes)
 - ✓ J9 2.3 (foundation profile, jxes)
- **Linux**
 - ✓ JDK 1.5.0_11-b03
 - ✓ J9 2.2 (foundation, max, rm profiles, jxes)
 - ✓ CVM 1.1

2.2 PDA

2.2.1 iPAQ - XScale 400 MHz

- **Windows Mobile 2005**
 - ✓ j9 2.2

2.3 Mobile Phones

2.3.1 Nokia e60 - ARM9

- **Symbian 9.0**
 - ✓ J9 2.3

2.4 Embedded Boards

2.4.1 S-Power MyIOA - Strong ARM processor

- **Linux**
 - ✓ J9 2.2
 - ✓ CVM 1.1

3 Other Tested Platforms

3.1 PC

- **Windows**
 - ✓ JSCP 3.2.2
 - ✓ TAO 2.0
 - ✓ CVM 1.1
- **Linux**
 - ✓ j9 2.3
 - ✓ Skelmir v2.8
 - ✓ TAO 2.0
 - ✓ Kaffe 1.5
 - ✓ Perc 5.0

3.2 PDA

3.2.1 iPAQ - XScale 400 MHz

- **Windows Mobile 2003/2005**
 - ✓ JSCP 3.2.2

3.2.2 iPAQ - XScale 206 MHz

- **QNX Neutrino 6.2**
 - ✓ J9 2.0

3.2.3 iPAQ - XScale 206 MHz

- **Linux Familiar 0.8.1**
 - ✓ J9 2.2

3.2.4 Zaurus Sharp

- **Linux**
- **J9 2.2**

✓ j92.3

3.3 Mobile Phones

3.3.1 Sony Ericson p900

- Symbian 9
 - ✓ J9 2.3

3.3.2 Nokia Communicator 9500

- Symbian 9
 - ✓ J9 2.2

3.4 Embedded Boards

3.4.1 Setrix - Strong ARM

- Linux
 - ✓ J9 2.2
 - ✓ CVM 1.1
 - ✓ Skelmir 2.8

3.4.2 MyIOA - Strong ARM processor

- Linux
 - ✓ Skelmir 2.8

3.4.3 MyIOA II

- Linux
 - ✓ J9 2.2
 - ✓ CVM 1.1
 - ✓ Skelmir 2.8

3.4.4 Motorola MS 1000M - MIPS processor

- Linux
 - ✓ CVM 1.1

3.4.5 Motorola Total 5200 - PPC processor

- QNX Neutrino
 - ✓ J9 2.0
 - ✓ J9 2.2

4 Known Limitations

- Xerces parser requires JDK 1.4 or J2 CDC VM and therefore is not supported on pJava 3.1 compatible JVMs like Skelmir

5 Resource Usage Example

Platform description	RSS, KBytes (Java process RAM)	Java Heap size, Bytes	Startup time, ms
HP iPAQ Strong ARM 1110/200MHz, RAM 32MB, Flash 16MB OS: QNX, JVM: J9 Foundation profile, JXEs mBS framework (lazy mode) with the following bundles: config.jar, connector.jar, console.jar, db.jar, devicem.jar, log.jar, osgilib.jar, pmp.jar, putil.jar, socketconn.jar telnet.jar, useradm.jar, useradmex.jar	4360	196395	1218

6 Installation Requirements

Installation of mBS Professional Edition on a Desktop machine can be successful if the machine meets the following requirements

- **CPU**
 - ✓ Pentium II equivalent or higher / 500 MHz or more
- **RAM**
 - ✓ 64 MB RAM free on Windows, 32 MB RAM free on Linux
- **HDD**
 - ✓ At least 50MB free hard disk space for a single mBS Professional Edition Installation
 - ✓ At least 200MB free hard disk space for an installation of mBS Professional Edition and any of the mBS Extensions