



Java ME is based on different APIs (JSR) available in mobile devices, apart from the configuration (like CDC or CLDC) and the profile (like MIDP or Personal Profile).

You have to be sure that the device the MIDlet is running on has the API before using it. You can check over platform information, for example for Series 40 or S60, to find which JSRs are available.

API Groups

There are two standards defined to reduce fragmentation, grouping many of the APIs in one platform name:

- Java Technology for the Wireless Industry (JTWI)
- Mobile Service Architecture (MSA)

Non standard APIs

Many APIs are specific to some vendor or operator. In this category, we can find:

- Nokia UI API

Standard APIs

There are 82 JSRs defined in JCP about Java ME. Many of them are still in draft and will be available in future devices and some were deprecated. The list of Java ME JSRs is <http://jcp.org/en/jsr/tech?listBy=1&listByType=platform>

The most common additional APIs found on mobile devices are:

- Wireless Messaging API (WMA) (JSR 120)
- Mobile Media API (MMAPI) (JSR 135)
- FileConnection & PIM API (JSR 75), also known as PDA Optional Packages
- Bluetooth API (JSR 82)
- Security and Trust Services API (SATSA) (JSR 177)
- Location API (JSR 179)
- SIP API (JSR 180)
- Mobile 3D Graphics API (JSR 184)
- Wireless Messaging API 2.0 (JSR 205)
- Content Handler API (JSR 211)
- Scalable 2D Vector Graphics API (SVG API) (JSR 226)
- Payment API (JSR 229)
- Advanced Multimedia Supplements API (AMMS API) (JSR-234)
- Mobile Internationalization API (JSR 238)
- Contactless API (JSR 257)
- Web Services API (JSR 172)
- JDBC for CDC (JSR 169) (this isn't available in CLDC/MIDP devices)

Additional APIs available for Java ME

- Java Binding for the OpenGL ES API (JSR 239)
- Mobile Sensor API (JSR 256)