

## Java ME (J2ME) Upgrade for Java Programmers Course Content

### Overview of J2ME

- ❖ Java ME (J2ME) Upgrade for Java Programmers Course
- ❖ Introduction
- ❖ Understand the differences between J2ME and other versions of Java,
  - ❖ Namely J2SE (standard client-side Java), and J2EE (enterprise Java).
- ❖ Understand the environments, and their limitations, in which J2ME runs.

### J2ME components:

- ❖ KVM
- ❖ CLDC
- ❖ MIDP
- ❖ Personal Java
- ❖ Overview of profile system Architecture and Midlets.
- ❖ Understand & Create Midlets (Applets for Mobile Devices).
- ❖ Deploy and test Midlets.
- ❖ Differences between J2ME environment

### MIDP 2.0

- ❖ Mobile information device profile
- ❖ Creating MIDP applications
- ❖ Midlet suites
- ❖ Midlet deployment

### MIDP 2.0 GUI

- ❖ Graphical User Interfaces with MIDP
- ❖ Displays, Commands, Pointers, Screens
- ❖ Animations and drawing

### Threading and Synchronization

- ❖ Threading
- ❖ Creating Threads in Java
- ❖ Synchronization

### J2ME Capabilities

- ❖ Streamed IO
- ❖ Socket IO (TCP/IP)
- ❖ J2ME IO
- ❖ Networking with HTTP
- ❖ RMS (Record Management System)

### Connectivity

- ❖ SMS
- ❖ Bluetooth
- ❖ IrDA - Infrared Data Adapter
- ❖ Networking
- ❖ Push Registry

### APIs

- ❖ MMAPAPI - JSR 135
- ❖ SIPAPI - JSR 180
- ❖ Game API