

SV TEHS SIA

Development Tools for Java™

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**IPVES Application Note 03:**

**Reboot**

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## IPJV-ES Application Note 03: Reboot

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**V 1.0**

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## Introduction

*IPJV-ES Development Board can be used in different applications.*

The IPJV-ES Development Board with embedded virtual machine for Java™ offers an Ethernet based connection to the Internet and numerous interface possibilities to other equipment, include serial RS-232 DTE interface, serializer module with UART, SPI, GPSI and 10BASE-T Ethernet support, 6-channel 10-bit A/D inputs, analog comparator and 16 I/O pins.

The IPJVM virtual machine for Java is a clean room implementation, that has been specially optimized to run on device with limited amount of internal memory and designed for Java™ 2 Platform, Micro Edition (J2ME™) Connected Device Configuration (CDC) Foundation Profile.

A complete development toolkit available for application development with IPJVM platform. The IPJVM platform provide system designers and software developers simple, flexible and cost-effective solution for embedded Internet application rapid development and prototyping. The platform is combination of Uvicom IP2022 Internet Processor and a Java programmable runtime environment.

The IPJV-ES Development Board based on Uvicom IP2022 Internet Processor, optimized for Internet-edge applications. It handles protocol processing in software instead of in hard-wired logic, making the whole solution more adaptable to evolving standards and allow designer to use the same solution across a wide variety of internet-edge products simply by changing the software, thereby significantly reducing nonrecurring engineering (NRE) costs.

Typical IPJV-ES applications include Includes HTTP/FTP/SMTP/SNMP/Telnet servers, PPP support on embedded UARTs, encryption, security and authentication tools, reporting and alarming via e-mail, remote monitoring, control, management and maintenance.

## Updates

New versions of the IPJV-ES software and applications can be obtained from the manufacturer's web site at:

<http://www.svtehs.com/ipjv.htm>

## Reboot

*How to switch to the configuration mode of the IPJV Development Board.*

This application demonstrate, how to switch to the configuration mode from your Java application. It can be useful, if you need to remotely upgrade your Java application and firmware. It is the only possible way for remote upgrade, so did not include `CfReboot` class into your application, if you did not allow remote access to the configuration mode for security reasons.

```
import jbvm.ip2k.*;
public class CfReboot
{
    public static void main (String[] aArg)
    {
        System.out.println("Switch to Configuration Mode");
        HWConfig.setCfgBoot(true);
        try { Thread.sleep(1000); } catch (InterruptedException e) {}
        System.exit(0);
    }
}
```

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