

SV TEHS SIA

Development Tools for Java™

IPVES Application Note 10:

Send mail

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IPJV-ES Application Note 10: Send mail

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>

Send mail

Sending e-mail message from the embedded web server .

This application show, how to send e-mail from the web site. `TestWWW.java` starts WWW server. All e-mail features handled with `sendemailcgi.java`. You need to set SMTP server, fill "From:", "To:" and "Subject:" fields and write message text in "Body:" field. In the "Attach:" field path to any file on the local filesystem can be added.

The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "Send EMail - Microsoft Internet Explorer". The address bar contains the local file path "F:\info\ipj\update\samples\send_mail.mht". The main content area displays a web form titled "Send EMail". The form includes the following fields and controls:

- SMTP Server:
- From:
- To:
- Attach:
- Subject:
- Body:
- Buttons: "Send" and "Reset"

The status bar at the bottom of the browser window shows "Done" on the left and "Internet" on the right.

Script test, if the "SMTP:", "From" and "To:" fields is not empty:

```
String srv=query.getProperty("SMTP","");
if (srv.length()==0)
    { out("<p>SMTP Server field is empty!</p>"); return; }
String from=query.getProperty("FROM","");
if (from.length()==0)
    { out("<p>From field is empty!</p>"); return; }
String to=query.getProperty("TO","");
if (to.length()==0)
    { out("<p>To field is empty!</p>"); return; }
```

It also test for the attach file, if the "Attach:" field is not empty:

```
String att=query.getProperty("ATTACH","");
boolean rc=false;
if (att.length()>0)
    {
    File ff=new File(att);
    if (!ff.isFile())
        {
        out("<p>Warning! Attachment '"+att+"' not exist.</p>");
        }
    else
        {
        sm.Attachment(att);
        }
    }
}
```

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