WapIDE

Wap Integrated Development Environment

WapIDE facilitates the creation of applications using WAP – Enables operators, content providers, application developers or any interested party to develop and test real WAP appli - cations swiftly and easily.

It can be used to develop specific vertical market applica - tions, such as Banking, Gaming, Directory services, etc. The WapIDE Service Development Kit also has support for Wireless Telephony Applications.

The WapIDE Service Development Kit enables the user to easily develop WAP applications. It is a fully featured and integrated development environment including a WAP client, an HTTP client and a file client. This means that the user can browse and test applications located on an HTTP server directly, indi - rectly through a WAP gateway, or located on disc.

WapIDE allows the user to view and test WML decks and cards on a number of simulated devices.

This allows the user to test the behaviour of an appli - cation on browsers with different characteristics, such as graphic support, display sizes etc. This will give the user/developer feedback on the perception of the application.

WapIDE includes a Device Designer, which opens up the possibility to design a device. That is if a device is newly introduced to the market, the user will have the tools to develop a browser with the same characteristics.

WapIDE includes an Application Designer for developing WML and WML Scripts. The develop- ment environment integrates browsers of choice, con- text sensitive WML editor and compilers within the reach of a mouse click. The user gets instant feedback on a developed application by switching the applica- tion designer into test mode.

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For server-side application development, WapIDE includes a Perl library for writing CGI scripts. The library has functions that can generate WML syntax for development of dynamic WML content.

The WapIDE consists of four main components:
- WAP Browser
- Device Designer
- Application Designer
- Server Toolset

WAP Browser
View WML decks and cards using a simulated WAP device. Functions included:

- **Wap Application Environment**
  – Graphical user interface and realistic behavioural model
  – WML bytecode interpreter
  – WML Script bytecode interpreter

- **WAP client**
  – Load WML decks from any WAP gateway or server

- **HTTP client**
  – Load WML decks directly from a non-WAP server

- **File Client**
  – Load WML decks from your local file system

Device Designer
A tool for simulation of the "look and feel" of a device of your choice. Functions included:

- **Visual layout of the device's physical appearance (GUI)**
  – Use an included sample device image or import your own
  – Define buttons on the device with up and down states
  – Associate WML events with buttons
  – Define type and dimensions of the character display

- **Specify behavioural characteristics of your device**
Use an included sample behavioural model or define your own. Examples:
  – Hold NO button two seconds to turn the device on
  – Animate an LED image to blink on and off when the device is on
  – Scroll text horizontally when it's longer than the display width

Application Designer
Create WML decks and cards in a WYSIWYG mode.

- **Dual mode Applications source creation**
  – One side of screen shows Application in your device, the other side shows the WML source
  – Syntax hi-lighting of WML source code

- **On- line help about WML and WML Script syntax**
  – Context sensitive menus to insert or modify WML elements

- **Incorporate WML Script into application**
  – Compile and test WML Script behaviour
  – Compile and verify WML deck source code from imported files

Server Toolset
Add dynamic WML content with server-side programming.

- Create WAP aware CGI scripts for more dynamic content

- Convert existing HDML pages to WML, then refine them.

- Pre-compile static WML decks and WML Script "scriptlets" for faster retrieval

- Verify WML syntax using WML Syntax Analyzer

- Includes Perl CGI libraries to handle generation of the correct HTTP content headers, extraction of CGI parameters and arguments present in the URL.

- CGI scripts to perform some basic validation and error handling routines to speed up the design effort.

- JAFFA – Java Servlet Library for deployment of WAP applications in Java server environments. JAFFA supports distribution of application logic using JAVA RMI.

Download
You can download the WapIDE for free from:
www.ericsson.com/WAP

Platform requirements:
The WapIDE is a system independent S/W package that can run on UNIX, Linux, Win 95/98 or NT systems.