

Servicepackage for Linux openInternetServices

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Open Source – Apache and more with Service and Updates

Introduction

The Fujitsu Siemens Computers product **openInternetServices** provides you with the basic Internet services required for e-business for **LINUX systems (SUSE, RedHat, Debian)**. Fujitsu Siemens Computers has put together a comprehensive, fully integrated product package based on **best-in-class open source** software to enable reliable and secure deployment of open source technology in the simplest way possible and appropriate to business-critical computing.

openInternetServices is **service package** with **product CD**. When you sign up to an openInternetServices (**openIS**) service package you receive the license, a current product version, access to regularly updated product versions (via a download server), as well as the right to support for the open source products provided and the security patches. The CD is not available without a service contract.

OpenInternetServices consist of the following main components:

- **Secure Webserver: Apache with PHP, Perl, Tomcat**
- **Web Proxy Cache Server: Squid**
- **Security with openSSL**

openInternetServices brings you the following crucial advantages:

- Use of open standards and widely available **open source technology**
- **Pre-evaluated product suite** containing the most important add-on components for e-business eliminates the time-consuming search for suitable open source products
- **Pre-integrated product suite** means no problems in the production, compilation and integration of disparate open source products, tools and base libraries
- Provided in **package form** for easy installation and residue-free deinstallation.
- Maintenance for open source products delivers expert **support** in the event of a problem. The customer is not expected to possess in-depth know-how about the deployed open source products
- **Service agreement** with notification of security problems, plus delivery of debugged current open source products when available, saves on tracking various mailing lists of the open source products used

Scope of services

Acquiring a servicepack you get the newest version of the openInternetServices CD, as well as the right to contact our calldesk via a service number by telephone or via email during the service time (Mo – Fr, 8 – 17o'clock) to identify yourself. Then you will be contacted within 2 hours by our service. There will be done all possible for solving your problem concerning open source technology. Additional you get access to our downloadserver with all security patches, updates etc. So you can be sure to use always actual and debugged version. That is the big difference to open source software which is directly downloaded.

The customer acquires a servicepack for one machine with max 2 CPUs. Paying once a year, the contract is running for 3 years.

Functionality of openInternetServices

1. Secure Webserver

The requirements facing a web server in the e-business environment exceed the set of functions provided by a conventional HTTP server. In addition to providing static information, the server must also be capable of collating dynamic content of different complexity on an individual basis at the time of the request. This can be implemented by external scripts and programs via the CGI (Common Gateway Interface) basic mechanism or much more powerfully through the use of built-in script interpreters. Since new applications are mainly written in JAVA these days, support for JAVA servlets or JAVA server pages is essential. Operating an extensive website necessitates the use of a search engine; by using logfile analysis programs the operator obtains detailed overviews on the use made of his offering.

The Secure Webserver Suite in openInternetServices is based on the use of the **Apache** web server, currently the world's most popular web server with a market share of 70%. (Source is the Netcraft Webserver Survey: www.netcraft.com/survey) Apache is the out-and-out market leader. The advantage for you, the customer, is innovative open source technology, but with the support of one of the large IT companies. Apache is enhanced with the script languages **PHP** and **Perl**, as well as with **TOMCAT** for JAVA integration. The web technology-based document management system **WebDAV** (Web-based Distributed Authoring and Versioning) is ideally suited to managing web content. Secure transmission is ensured using **SSL** – a security protocol that guarantees data security on a layer sandwiched between the HTTP protocol and the TCP/IP transport protocol. It supports encrypted connections and authentication confirmations with server and client certificates conforming to the X.509 standard, as well as ensuring message integrity. For this, the open source implementation **openSSL** is used.

Functionality	Open Source Product	Provider	Link
HTTP-Server	Apache 1.3	Apache Software Foundation	http://httpd.apache.org/
Script Interpreter	PHP4	Apache Software Foundation	http://php.apache.org/
Script Interpreter	mod_perl	Apache Software Foundation	http://perl.apache.org/
	Perl	Perl Porters	http://www.perl.com/
JAVA-Servlets, JSP	TOMCAT	Apache Software Foundation	http://jakarta.apache.org/tomcat/index.html
Search Analysis	ht://Dig	The ht://Dig Group	http://htdig.sourceforge.net/
Logfile-Analysis	Analog	Stephen Turner	http://www.analog.cx
Logfile-Analysis	Webalizer	Bradford L. Barrett	http://www.mrunix.net/webalizer
SSL	openSSL	OpenSSL Project	http://www.openssl.org/
Web Cache	Squid	squid-cache.org	http://www.squid-cache.org/

2. Web Proxy Cache Server

To offload a heavily accessed web server, a web proxy cache server is used, usually configured as a front-end to the web server. Responses from the web server are stored in the largest possible cache area, which is used to service future requests.

The **Squid server** is provided as the web proxy cache server.

Single component of openInternetServices:

Package	Package Description
SMAWOanlg	analog – fast, free web server log file analysis program
SMAWOap13	apache httpd server
SMAWObase	Basic Directory Structure for OpenIS
SMAWObzip	bzip – high-quality data compressor
SMAWOcrlg	cronolog – flexible web log rotation program
SMAWOcurl	cURL – a client that understands and processes URLs
SMAWOdbns ¹⁾	DB Name Service Module
SMAWOexpt	Expat XML Parser
SMAWOgdbm	gdbm – GNU dbm library
SMAWOhtdg	ht://dig WWW Search Engine
SMAWOldap	OpenLDAP – Lightweight Directory Access Protocol suite
SMAWOldb4	Berkeley libdb4
SMAWOlft	freetype2 – Truetype library
SMAWOlgd	libgd – library for dynamic creation of images
SMAWOljpg	libjpeg – JPEG image compression and decompression library

SMAWOImm	mm – shared memory abstraction library
SMAWOIpng	libpng – PNG access library
SMAWOIt1	T1lib – Type1 font rendering library
SMAWOIxpnm	libxpm – image access library
SMAWOIz	zlib Compression Library
SMAWOodbc	iODBC – platform independent ODBC
SMAWOssl	OpenSSL Crypto Libraries and Tools
SMAWOperl	Perl scripting language
SMAWOpgsq	PostgreSQL – Object-Relational SQL DBMS
SMAWOsasl	Cyrus SASLv2 Server
SMAWOsquid	Squid Web Proxy Cache
SMAWOtcat	Jakarta TOMCAT
SMAWOwbal	webalizer – fast, free web server log file analysis program

1) only Debian

All products are open source with their own license conditions

What is your effort by doing all this by your own?

Example calculation for time saving/customer benefits when implementing a new project:

Incident support/security patches and project problems	12x2 days (annually)
Weekly monitoring of the security groups	12x2 days (annually)
(at FSC, 11 groups are polled daily: CERT, Internet Security Group, SUSE, Apache Workgroup, etc.)	

ongoing overheads: 2.5 months/year

The above calculation does not include the overhead involved in producing and integrating security patches and resolving project-specific problems, as well as finding, assessing and selecting the most powerful tools. **All this and more is covered by the Fujitsu Siemens Computers openInternetServices service package. For more details, please contact the sales executive handling your account.**

Documentation:

The documentation is on the CD

System requirements:

- Hardware: all x86 machines systems
- Operating system:
 - SUSE Linux Enterprise Server 8
 - SUSE Linux Enterprise Server 9
 - REDHAT ENTERPRISE LINUX AS Version 3
 - Debian GNU/LINUX 3.0 »Woody«