



Open Source Job Scheduler

JOBSCHEDULER

The Job Scheduler automates and integrates Business Processes in the Company – A High Performance Open Source Solution with Enterprise Level Support

Open Source for Business

Handling the increasingly complex challenges for the IT Management is a time consuming and difficult task. Therefore, organizational tools are of central importance, running an efficient management without the help of such tools would be quite unthinkable. The Open Source Job Scheduler is a powerful tool, that allows for the integration of applications and the automation of workflows, while at the same time making only modest demands towards your IT budget.

The topic of job scheduling is not new, as a matter of fact anyone who knows mainframes also knows, that for decades scheduling systems have been part of the standard for the automation of processes. However efficient open source solutions for job scheduling, such as the Open Source Job Scheduler of the SOS GmbH, Berlin are new indeed. The Open Source Job Scheduler can be integrated seamlessly into an existing Software Infrastructure.

Job Scheduler Functionality

The standard tasks of the Job Scheduler are primarily: starting executable scripts, creation of job chains for the serialization and processing of jobs. Job starts can be triggered time and event controlled. Events can be triggered automatically, manually, by an API or by monitoring of directories. Starting events by monitoring directories is important if it is intended to integrate legacy applications via file transfer into the business workflow. The processing of jobs is logged and e-mails are sent in case of success and error.

The Open Source Job Scheduler offers a multitude of features and is regularly enhanced with new functionalities.

The Job Scheduler is available for the following operating systems: Windows 2000/2003/XP, Linux starting with Kernel 2.4, Solaris 8/9/10 and HP-UX 11 (PA-RISC, IA64), additional platforms are in planning.

Job Scheduler supports the database systems DB2 8.x; Oracle 8.1.7, 9.2, 10g; SQL Server 2000, 2005; MySQL Version 4.1, 5.x; PostgreSQL 8.x

Features

Standard Jobs

The Job Scheduler distribution provides a range of standard jobs such as: logging and cleanup; sanity checking; e-mail forwarding; remote job execution; FTP transfer; file operations (rename copy, remove, check existence) and SCP, SFTP and SSH.

Notification and Logging

The Job Scheduler sends status e-mails for jobs and logs the entire job history. Logs and job history can be monitored via a graphical user interface.

Web Services & BPEL

Scripts and programs are encapsulated as web services. With this method legacy applications can be integrated seamlessly into SOA architectures.

Application Programming Interface

The Job Scheduler offers API's for the implementation of jobs and job scripts, e.g. for the conditional processing and for dynamic parameterization.

For the implementation of jobs and scripts using the API, the supported languages Java, Javascript, Perl, VBScript can be used. For job control an XML-API is available which also serves as an interface for other applications.

References

The Job Scheduler is primarily in use by mid-size and large companies for business critical applications, here are some samples of deployment:

- Large data transfers are organized by the Job Scheduler between Bayer-Schering Pharma AG in Berlin and their subsidiaries all over the world.
- For the American Stock Exchange the Job Scheduler organizes the automated file transfer and update of data for the trading platform across different server systems.
- Payment transactions are automated for the financial service provider Accarda AG (Swisscom). Job chains organize and monitor the payment transactions of end customers, retailers and mail order companies.
- For AOK Bremen, Health Insurance company, the Job Scheduler is used as a batch module for the automated processing of documents, the formatting and print.

Benefits of Open Source Solutions

If you opt for an open source product, your evaluation and implementation starts right away and there lies the decisive difference between an open source software and proprietary software: you use your budget for the implementation and not for the purchase of the product.

Service, Support and Licensing

Professional services can be purchased for implementation, customizing and support. Dual licensing is offered for the Job Scheduler. Independent of the chosen licensing model, enterprise level support and individual service level agreements are available.

Product Information

Detailed information for the product and on additional features are available at SourceForge:

<http://jobscheduler.sourceforge.net>

Features

Graphical User Interface

The Job Scheduler is configured by XML files. However, you can use the GUI to manage jobs without any knowledge of XML. GUIs are available to control jobs at run time and to manage jobs and job chains during run time. Different GUI's are provided.

The job control GUI shows status information of the jobs. Operations such as: starting and stopping of jobs etc. are possible during run time.

With the Managed Jobs GUI it is possible to control and monitor several Job Schedulers on different operating systems. An Explorer-like web interface (Ajax) is used to configure e.g. jobs, job chains and other Job Scheduler Objects.

The graphical editor is used as an alternative to the Managed Jobs GUI, for users that do not want to store job configurations in a database, but prefer to store them in files on disk.

Free Evaluation Support

Do you want to take a shortcut in finding out if the Job Scheduler will manage the tasks in your IT environment? We will assist you: just send a description of your requirements and we will check if the Open Source Job Scheduler is the right solution for you.

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