

The easy to use and extensible integration server

giServer

## The giServer is an easy-to-use integration server for process automation and event-driven or scheduled execution of batch jobs.

### Initial Situation

Each business has its own special demands on rules, performance and cost.

Using giServer, you are able to develop fast and complex batch applications easily, safe and quickly, concentrating on the heart of your business rules and unhindered by other technical management demands.

### Some possible usage scenarios

- ▶ Automatic processing of incoming data files
- ▶ Data Mining/Aggregation applications
- ▶ Automatic Reporting
- ▶ Big Data applications
- ▶ Process automation
- ▶ Development of client/server applications with batch processing

### giServer

We follow the guideline of “Convention over Configuration” in order to reduce complexity of configurations by standardization. To support this, giServer endorses fast development of batch applications by making available all the required ready-to-use managing components.

The server-component of giServer can be installed on a computer with any current Windows system as a service. giServer is developed in Java, with an open platform and an independent architecture in mind. Therefore our software ensures safe running of work-intensive processes on various computer platforms in your company.

The batches can be run at fixed dates or triggered by events. Our batch framework also allows parallelization of mass data processing.

Access to various database servers is possible via JDBC drivers as well as to MongoDB-Servers.

Hence, giServer is ready for applications in the world of Big Data.

#	Queue	Batch	User	Tenant	Remote Host	Created	Start of execution	End of execution	Status	Status-Text
5	QUEUE-1	Example batch plugin	sa		Snov-nb	2013-12-02 14:29:06			ST_WAITING	Warte auf Verarbeitung...
4	QUEUE-1	Example batch plugin	sa		Snov-nb	2013-12-02 14:29:03	2013-12-02 14:29:03		ST_RUNNING	Batch is running...
3	QUEUE-4	Example batch plugin	sa		Snov-nb	2013-12-02 14:28:58	2013-12-02 14:28:58		ST_RUNNING	Batch is running...
2	QUEUE-1	Example batch that thro...	sa		Snov-nb	2013-12-02 14:28:50	2013-12-02 14:28:50	2013-12-02 14:28:56	ST_TECHNICAL_ERROR	Batch finished with technical errors.
1	SCHEDULER	Long running batch.	sa		Snov-nb	2013-12-02 14:28:32	2013-12-02 14:28:36		ST_RUNNING	Running...
0	SCHEDULER	Example batch plugin	sa		Snov-nb	2013-12-02 14:28:23	2013-12-02 14:28:23	2013-12-02 14:28:36	ST_FINISHED	Batch finished.

Main window of the giServer-client with different batch jobs

Name	Type	Plugin-Class	Version	Description
ExampleBatch	BATCH	de.gadiv.integration.server.examples.batches.ExampleBatchPlugin	1.0.0	Example batch plugin
ExternProgramTrigger	TRIGGER	de.gadiv.integration.server.examples.triggers.ExternProgramTriggerPlugin	1.0.0	Trigger that runs an extern program if t
My long running batch	BATCH	de.gadiv.integration.server.examples.batches.ExampleBatchLongRunPlugin	1.0.0	Long running batch.
My sample batch with exception	BATCH	de.gadiv.integration.server.examples.batches.ExampleBatchErrorPlugin	1.0.0	Example batch that throws an exception.

## Own batches can be easily installed as giServer plugins

### Licensing

giServer is available as open-source software (GPL) and will be provided for free by gadiv.

### Features

- ▶ Open Source (GPL)
- ▶ Multi-client/tenancy-capable
- ▶ Parallel batch processing
- ▶ Queues for sequential execution of batch jobs
- ▶ Unlimited queues for each client
- ▶ Scheduled and periodical start of batches
- ▶ Triggered start of batches
- ▶ Manual start of batches
- ▶ User managing system with a hierarchy of rights
- ▶ Platform independent, thanks to modern Java technology
- ▶ A Java programming interface for managing giServer and for development of parallelized batch applications
- ▶ GUI for managing server-configurations and permanent control over batch job progress
- ▶ Pluggable batch information and control component for implementation in your own Java client applications

- ▶ Extensible via Plugins
- ▶ Various logging mechanisms for individual batches and the giServer itself
- ▶ Currently the giServer supports MS-SQL-Server, DB/2, Informix and HSQL-databases
- ▶ In future we plan to generalize this to arbitrary JDBC-driven systems
- ▶ Access to NoSQL MongoDB-Servers

### Additional Services

- ▶ Development of individual batch applications and / or plugins
- ▶ Introduction of the giServer usage in your company
- ▶ Individual changes/enhancements to the giServer, tailored to your business demands
- ▶ Individual tailored trainings
- ▶ Basic and professional support