



JOB SCHEDULER

Training Plans

Technical Information

April 4, 2008

Table of Contents

1	Introductory Level	3
1.1	Training Session 1: Job Scheduler Operations Training	3
1.2	Training Session 2: Job Scheduler Deployment Training.....	3
1.3	Training Session 3: Job Scheduler Installation Training.....	4
2	Intermediate Level	5
2.1	Training Session 4: Job Scheduler Developer Training.....	5
2.2	Training Session 5: Job Scheduler Managed Jobs Training	6
3	Expert Level	7
3.1	Training Session 6: Central Configuration Training	7
3.2	Training Session 7: Distributed Orders Training.....	7
3.3	Training Session 8: Backup and Failover Training	8
3.4	Training Session 9: Custom Training	8

1 Introductory Level

This training is intended for all users of the Job Scheduler: operators, administrators, job developers. It conveys the basics which are required for the intermediate and expert level trainings.

1.1 Training Session 1: Job Scheduler Operations Training

Unit	Duration	Topic
1	90min	Job Scheduler Overview
		Material: <ul style="list-style-type: none"> ▪ Slides
		Focus: <ul style="list-style-type: none"> ▪ Job Scheduler Features ▪ Relationship of Jobs, Orders and Job Chains ▪ Introduction to Run Times
2	60min	Operations GUI for Job Control
		Material: <ul style="list-style-type: none"> ▪ Job Scheduler environment
		Focus: <ul style="list-style-type: none"> ▪ Start, stop, suspend, resume jobs and job chains ▪ Access job history and log files ▪ Demonstrate Job Scheduler Features

1.2 Training Session 2: Job Scheduler Deployment Training

Unit	Duration	Topic
1	240min	Deployment of Jobs and Job Chains
		Prerequisites: <ul style="list-style-type: none"> ▪ Job Scheduler Operations Training
		Material: <ul style="list-style-type: none"> ▪ Job Scheduler environment ▪ Java Job Editor
		Focus: <ul style="list-style-type: none"> ▪ Using the Job Editor ▪ Editor vs. XML ▪ Job Attributes (Tasks, timeout, ...) ▪ Base File vs. Hot Folders ▪ Creating shell jobs ▪ Using standard jobs provided with the Job Scheduler ▪ Parameterization of jobs ▪ Creating Job Chains ▪ Error handling in Job Chains ▪ Process Classes ▪ Run Times ▪ File orders

1.3 Training Session 3: Job Scheduler Installation Training

Unit	Duration	Topic
1	90min	Job Scheduler Installation
		Prerequisites: <ul style="list-style-type: none">▪ Job Scheduler Operations Training▪ Job Scheduler Deployment Training
		Material: <ul style="list-style-type: none">▪ Job Scheduler download
		Focus: <ul style="list-style-type: none">▪ Installing and configuring the Job Scheduler▪ Setting up a database▪ Restricting access to the web interface▪ Setting up housekeeping jobs

2 Intermediate Level

This training is intended for job developers and administrators who wish to schedule more complex tasks, which cannot be solved by the standard Job Scheduler configuration options.

Attendees are required to have knowledge of

- One of the supported programming languages Java, Javascript, Perl
- XML
- Setting up a Web Server

2.1 Training Session 4: Job Scheduler Developer Training

Unit	Duration	Topic
1	1.5days	Job Scheduler API
		Prerequisites: <ul style="list-style-type: none"> ▪ Job Scheduler Operations Training ▪ Job Scheduler Deployment Training ▪ Job Scheduler Installation Training
		Material: <ul style="list-style-type: none"> ▪ Job Scheduler environment ▪ One of the supported languages Java, Javascript, Perl ▪ Tasks for the participants are prepared by SOS
		Focus: <ul style="list-style-type: none"> ▪ Create sample jobs ▪ Deploying own job implementations ▪ Standalone jobs ▪ Order jobs ▪ Debugging jobs (Java only) ▪ spooler_init() / spooler_exit() ▪ Passing order parameters between jobs ▪ Start/modify jobs ▪ Move orders to other states ▪ Using setback ▪ Writing monitors ▪ Sending mails ▪ Processing file orders
1	240min	Job Scheduler XML API
		Material: <ul style="list-style-type: none"> ▪ Job Scheduler environment
		Focus: <ul style="list-style-type: none"> ▪ Modifying the Job Scheduler ▪ Modifying jobs/orders ▪ Querying the Job Scheduler

2.2 Training Session 5: Job Scheduler Managed Jobs Training

Unit	Duration	Topic
1	120min	Installing Managed Jobs
		Prerequisites: <ul style="list-style-type: none"> ▪ Job Scheduler Operations Training ▪ Job Scheduler Deployment Training ▪ Job Scheduler Installation Training
		Material: <ul style="list-style-type: none"> ▪ Job Scheduler environment
		Focus: <ul style="list-style-type: none"> ▪ Setting up Managed Jobs ▪ Configuring PHP, Database Extension, Web Server ▪ Connecting multiple Job Schedulers
2	120min	Using Managed Jobs
		Material: <ul style="list-style-type: none"> ▪ Job Scheduler environment
		Focus: <ul style="list-style-type: none"> ▪ Using the web interface ▪ Parameter editor, run time editor ▪ Using standard jobs ▪ Configuring jobs, job Chains, orders ▪ Manage jobs, users and permissions

3 Expert Level

This training is intended for enterprise level Job Scheduler users who need to set up the Job Scheduler in an environment of several servers.

Attendees are required to have

- Administrative know how of the target environment (Windows/ Unix)

3.1 Training Session 6: Central Configuration Training

Unit	Duration	Topic
1	180min	Central Configuration
		Prerequisites: <ul style="list-style-type: none"> ▪ Job Scheduler Operations Training ▪ Job Scheduler Deployment Training ▪ Job Scheduler Installation Training
		Material: <ul style="list-style-type: none"> ▪ 2+ Job Scheduler environments ▪ Java Job Editor
		Focus: <ul style="list-style-type: none"> ▪ Benefits of Central Configuration ▪ Setting up Central Configuration

3.2 Training Session 7: Distributed Orders Training

Unit	Duration	Topic
1	240min	Distributed Orders
		Prerequisites: <ul style="list-style-type: none"> ▪ Job Scheduler Operations Training ▪ Job Scheduler Deployment Training ▪ Job Scheduler Installation Training
		Material: <ul style="list-style-type: none"> ▪ Slides ▪ 2+ Job Scheduler environments
		Focus: <ul style="list-style-type: none"> ▪ How do distributed orders work? ▪ Setting up a Job Scheduler Cluster ▪ Configuring distributed Job Chains ▪ Pitfalls of distributed orders

3.3 Training Session 8: Backup and Failover Training

Unit	Duration	Topic
1	180min	Backup and Failover Training
		Prerequisites: <ul style="list-style-type: none"> ▪ Job Scheduler Operations Training ▪ Job Scheduler Deployment Training ▪ Job Scheduler Installation Training
		Material: <ul style="list-style-type: none"> ▪ Slides ▪ 2+ Job Scheduler environments
		Focus: <ul style="list-style-type: none"> ▪ How does failover work? ▪ Setting up a Job Scheduler Cluster ▪ Configuring primary and backup Job Schedulers ▪ Manual/automatic Failover ▪ Manual Fallback

3.4 Training Session 9: Custom Training

Unit	Duration	Topic
1		Custom Training
		Prerequisites: <ul style="list-style-type: none"> ▪ Job Scheduler Operations Training ▪ Job Scheduler Deployment Training ▪ Job Scheduler Installation Training ▪ Examples of your Scheduling requirements
		Material: <ul style="list-style-type: none"> ▪ Job Scheduler environment
		Focus: <ul style="list-style-type: none"> ▪

The custom training will adapted regarding individual requirements, e.g.:

- implementing jobs and job chains from individual specifications
- operator training for an individual Job Scheduler environment
- ...