



Migration of Control-M to Job Scheduler

Integration of Job Scheduler
in a TWS Landscape

Content

- basic conditions I & II
- previous landscape (Control-M)
- current landscape (Job Scheduler)
- basic data
- installation
- migration (overview)
- migration (workflow)

Basic Conditions I

- complete replacement of Control-M (incl. server)
 - the scheduling software has to be installed on the application server
 - all scheduling tasks have to be handled by Job Scheduler
- TWS is still the enterprise tool for software automation
 - It is necessary to implement the communication between Job Scheduler and TWS
 - no changes in the TWS environment
 - the configuration of the TWS jobstreams have to remain unchanged

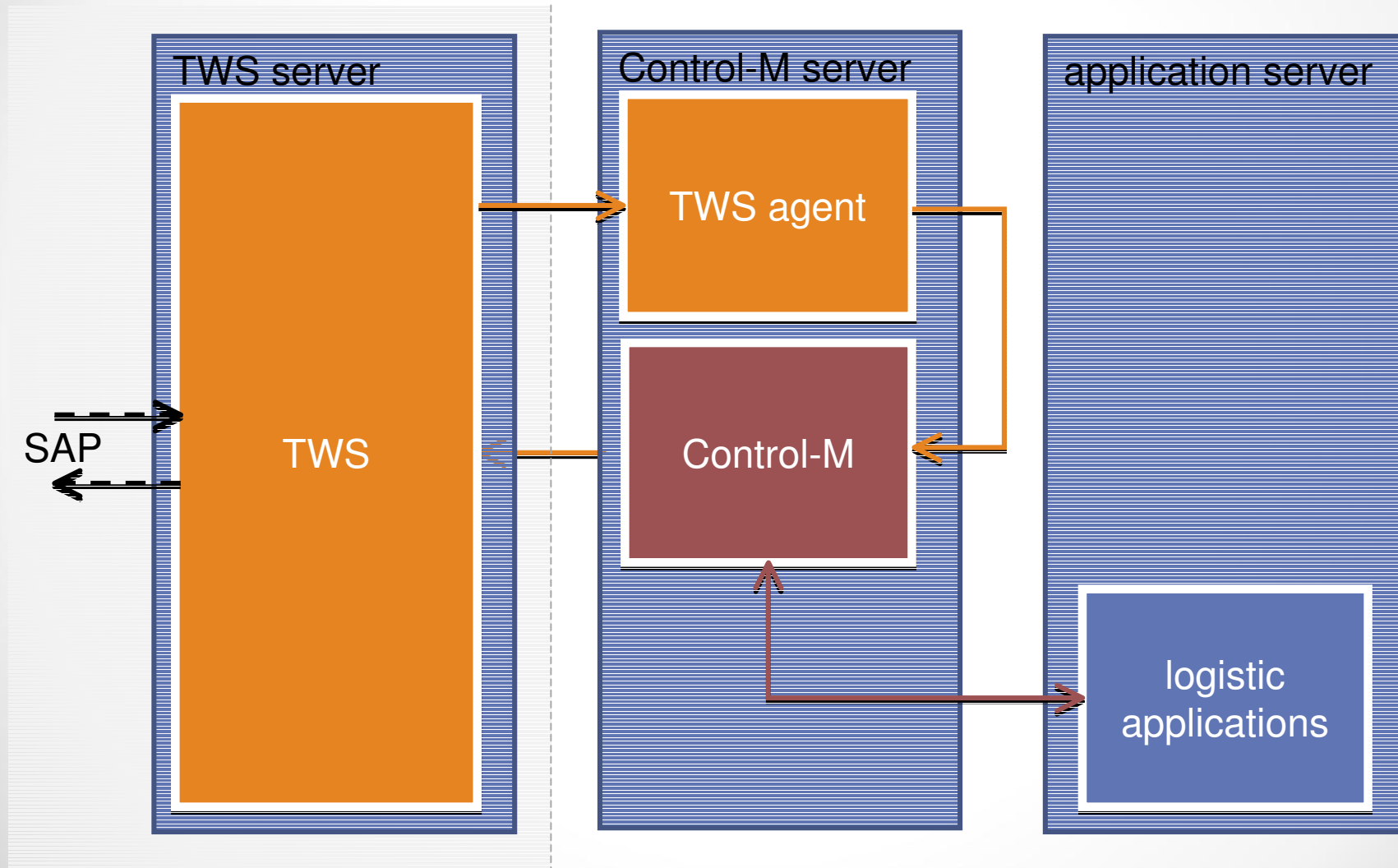
Basic Conditions II

- security conditions
 - the security conditions of the customer have to be considered (e.g. no direct ssh connection to the TWS server)
- less migration effort
 - the effort is 60 days
- cost reduction
 - approx. 80% savings
 - ROI < 1 year

Previous Landscape (Control-M)

- „Logistic Cluster“
 - two application server (production & development)
 - development server is fallback for production
- Job scheduling controlled by Control-M
 - one Control-M installation on a separate server
 - no distinction between production & development
 - Control-M handles the communication with TWS
 - Control-M handles the batch operations for the logistic applications
- TWS communication controlled by an TWS agent
 - a TWS agent is running on the Control-M server
 - it handles the communication with the TWS server

Previous Landscape (Control-M)

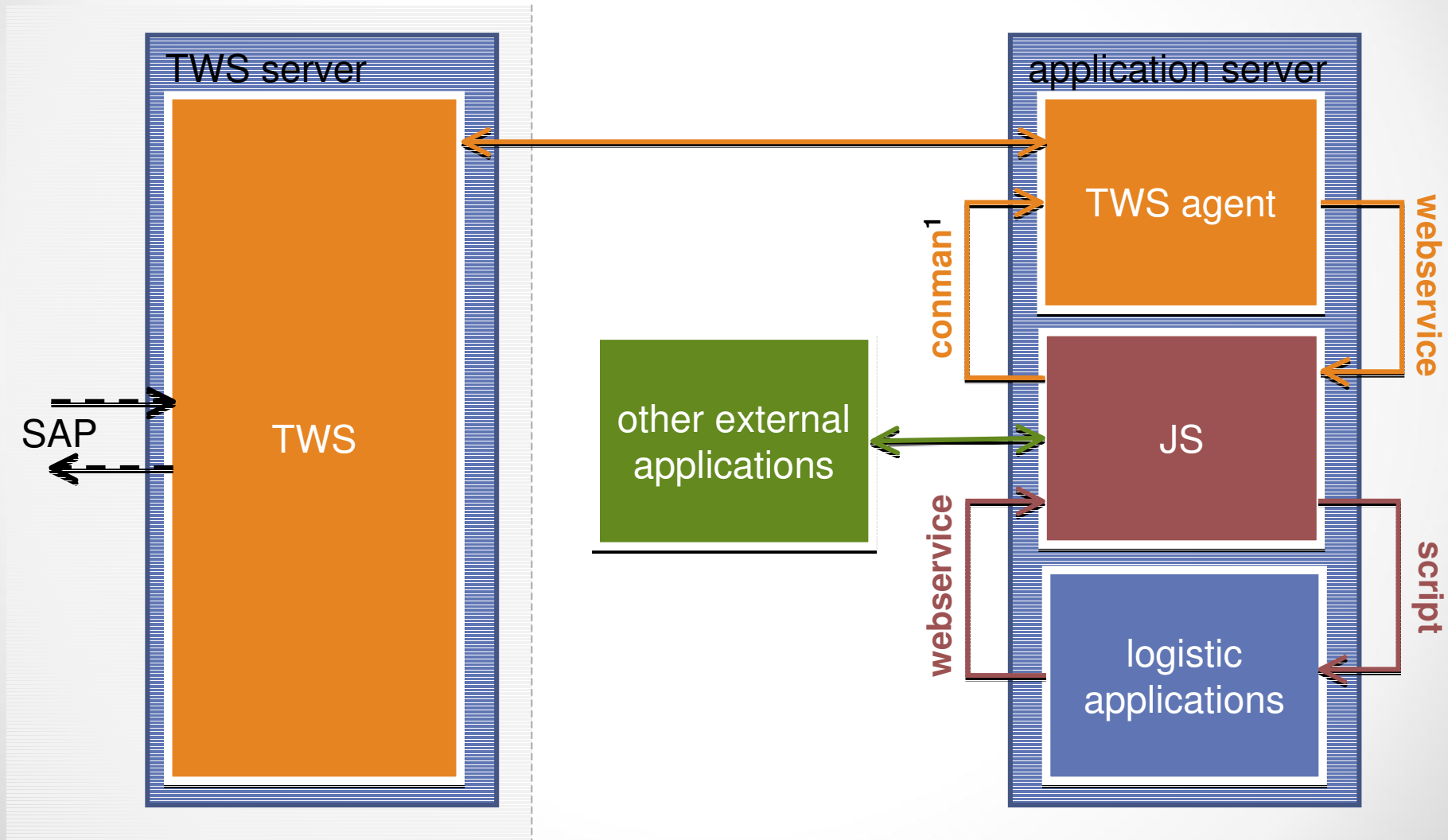


Current Landscape (Job Scheduler)

- „Logistic Cluster“
 - Two application server (production & development)
 - Development server is fallback for production
- Job scheduling controlled by Job Scheduler (JS)
 - one instance of JS installed on each application server (production & development)
 - JS handles the communication with TWS
 - JS handles the batch operations of the logistic applications
- TWS communication controlled by an TWS agent
 - a TWS agent is running on the application server
 - it handles the communication with the TWS server

Current Landscape (Job Scheduler)

¹ conman is a commandline tool of the TWS agent



Basic Data

- configuration of Job Scheduler
 - 600 jobs
 - 250 job chains
 - 100 orders
 - TWS communication via TWS agent
 - external job start via Web Service
- database
 - one database shared by two instances of Job Scheduler (production & development)
 - Oracle 11
 - 50 GB tablespace

Batch Installation

- installation of Job Scheduler in batch mode
 - configuration files just differ in a few parameters (e.g. the server names)
 - garantie for exactly the same installation on all systems
 - easy to reinstall

Migration Overview

- export the Control-M configuration
 - Control-M provides its job configuration in XML
 - one xml file per Control-M table
- automated migration
 - providing a set of XSLT stylesheets to handle the migration
 - controlled by ANT
 - 6 steps workflow:
 - configuration
 - data collection
 - build additional resources for Job Scheduler
 - generating Job Scheduler objects
 - provide a release version of the live folder
 - deployment to the application servers
 - < 5% manual adaption

Migration Workflow

configure

collect

build

generate

release

deploy

- configure a file with all CTM tables to migrate
- create a „collection“ of the basic data of all jobs ★
- create manual JS objects in singular cases
- adapt the given Control-M data in the „collection“
- expand the „collection“ with some „payload“ per job
- generate additional JS objects ★
(e.g. syncpoint jobs, process classes, locks)
- generate JS objects based on the „collection“ ★
(jobs, orders, job chains)
- create a local release version of the live folder ★
- deploy the live folder to the application servers ★

★ = automated steps (XLST)