Efficiently automate and balance workloads for enterprise resource planning applications

IBM Tivoli Workload Scheduler for Applications

Highlights

■ Support business goals and service levels by driving ERP workloads according to business policies

■ Move from a static workload view to a fully automated, dynamic and service-driven environment

■ Optimize resource use with workload brokering features

■ Increase fault tolerance to improve resiliency across the infrastructure

■ Easily scale to meet workload demands and add additional applications as needed

■ Increase efficiency and productivity by automatically resolving workload dependencies

Today’s complex IT environments often employ a variety of enterprise resource planning (ERP) applications—including SAP, Oracle and PeopleSoft—to create composite business services. Each application generates its own workloads and uses its own workload schedulers, resulting in siloed workload management environments. Since these siloed workload schedulers have no cohesive tool pulling them together, they are devoid of any ability to communicate between key business systems—such as human resources and finance—and to resolve dependencies between applications that can create workload bottlenecks. Making matters more complicated, the built-in schedulers within those applications are often limited in both scalability and fault tolerance, making it difficult to increase workloads as needed and to ensure the continuity of those workloads across your infrastructure.

IBM Tivoli® Workload Scheduler for Applications, part of the IBM Tivoli Workload Automation portfolio, addresses these challenges by integrating the sophisticated workload automation features of IBM Tivoli Workload Scheduler—commercial-strength composite workload automation software—with the built-in workload capabilities of Oracle e-Business Suite, PeopleSoft, SAP R/3 and SAP Business Warehouse to enable you to:

• Take advantage of policy-based event monitoring and filtering.
• Coordinate event-based and calendar-based scheduling across host and distributed environments.
• Quickly scale to meet workload shifts and changing business demands.
• Resolve workload dependencies and simplify troubleshooting.
• Increase system resiliency through robust fault tolerance capabilities.
Like other products within the Tivoli Workload Automation portfolio, Tivoli Workload Scheduler for Applications enables you to plan dynamic ERP workload execution, resolve cross-application and system dependencies, track and restart ERP workloads, and monitor heterogeneous workloads by exception.

In addition, Tivoli Workload Scheduler for Applications extends the numerous capabilities of Tivoli Workload Scheduler by providing extensive awareness of and interfacing into your ERP applications, so you can easily plan, submit and trigger Tivoli Workload Scheduler for Applications across mixed application environments—all through a single point of control.

For stand-alone ERP system environments, Tivoli Workload Scheduler for Applications delivers:

- **Dynamic, service-driven execution of workloads.**
- **High scalability.**
- **Fault tolerance and workload restart processes.**
- **Audit control and reporting.**

Using Tivoli Workload Scheduler for Applications, IT organizations with composite application environments can take advantage of:

- **Consistent, single-pane views.**
- **Control and automation across mixed, heterogeneous applications and systems.**
- **The ability to help drive composite workloads according to business policies while helping to resolve cross-application and system dependencies.**

**Better meet business demands by driving workloads according to business policies**

In a siloed workload management environment, workload balancing and prioritization are often difficult to align with business policies. While it might be practical to schedule your payroll jobs at a nonpeak time, it is difficult—if not impossible—to coordinate that with jobs in other systems, such as finance. There is simply no communication across business systems. With Tivoli Workload Scheduler for Applications, you can drive enterprise workloads through policy-based event monitoring and filtering, helping you maximize resource usage and achieve business policies and service level targets.

Because Tivoli Workload Scheduler for Applications provides both calendar-based and event-based automation, you are more able to move from a static, platform-based view of production workloads to a flexible, service-driven environment.

**Scale up or down as needed**

As your environment grows and new ERP applications are added, Tivoli Workload Scheduler for Applications easily scales to accommodate additional applications and heavier workloads—and continues to resolve dependencies between applications in your mixed environment. This enables you to quickly achieve business policies, meet service level agreements (SLAs) and accommodate workload shifts. In addition, a brokering feature also helps ensure that when one resource fails or slows, the software can automatically route workloads to better-performing resources, helping you optimize hardware and software utilization.

Since you continue to use a single tool to manage diverse application workloads, you can easily limit the skilled labor needed to manage complex applications and make it easy for your staff to quickly manage additional workloads and applications, with little or no training.

**Improve resiliency of ERP applications through fault-tolerant process execution**

Tivoli Workload Scheduler for Applications helps you increase resiliency in your workload infrastructure. For instance, if a workload fails,
the software can automatically generate an alert and an autorecovery response, and even resubmit the workload.

Automatic notification and recovery and restart for failed workloads help you ensure that you have built-in protection for your workloads and improved productivity through efficient workload execution. The software’s event-based automation provides flexible alerting for operators, administrators and managers, for real-time user notification and maximized responsiveness to the business.

**Advanced features ease ERP workload automation**

*Model workloads prior to production with robust planning engine*

Unlike other scheduling tools, Tivoli Workload Scheduler for Applications enables you to apply a specially designed planning engine within Tivoli Workload Scheduler to build sophisticated calendar and event rules for ERP systems. You can execute the rules within Tivoli Workload Scheduler and test performance prior to running the workloads in production. The planning engine also enables you to do forecasting, helping you determine how workloads will be managed in a future environment.

*Ease management with a single-console view*

Tivoli Workload Scheduler for Applications enables you to provide a single-console view for ERP systems through Tivoli Workload Scheduler. A single point of control makes it easy for you to fine-tune performance, alter schedules and handle exceptions from one location. You can use this powerful tool to coordinate workload automation across mixed systems, including host and distributed environments, and significantly reduce the oversight needed by IT administrators.

This consolidated view also provides you with up-to-the-minute information on workload status and statistics, greatly simplifying troubleshooting efforts and speeding time to resolution of scheduling issues. In addition, the administrative console allows your operations to easily create production reports and generate alerts based on workload, application or system events.

*Balance SAP workloads to optimize resource usage*

Because Tivoli Workload Scheduler for Applications is SAP certified, it is especially helpful for organizations that rely on SAP for ERP functions. You can easily use the software for enhanced SAP event monitoring and triggering capabilities to dynamically manage workloads. It also automatically imports and synchronizes SAP calendars—easing operations and providing consistent visibility into SAP workloads. Improved load balancing for your SAP workloads across IT resources helps optimize overall resource usage.

**For more information**

To learn more about how Tivoli Workload Scheduler for Applications can help your organization efficiently balance and automate ERP workloads, please contact your IBM representative or IBM Business Partner, or visit ibm.com/software/tivoli/products/scheduler-apps/ or ibm.com/software/tivoli/products/workloadautomation/ to learn more about the entire Tivoli Workload Automation portfolio.

**About Tivoli software from IBM**

Tivoli software provides a set of offerings and capabilities in support of IBM Service Management, a scalable, modular approach used to deliver more efficient and effective services to your business. Helping meet the needs of any size business, Tivoli software enables you to deliver service excellence in support of your business objectives through integration and automation of processes, workflows and tasks. The security-rich, open standards–based Tivoli service management platform is complemented by proactive operational management solutions that provide end-to-end visibility and control. It is also backed by world-class IBM Services, IBM Support and an active ecosystem of IBM Business Partners. Tivoli customers and business partners can also leverage each other’s best practices by participating in independently run IBM Tivoli User Groups around the world—visit www.tivoli-ug.org
# Tivoli Workload Scheduler for Applications at a glance

## Operating systems:
- Compaq Tru64 5.1
- HP-UX 11.0, 11i v1, 11i v2 Intel® Itanium
- IBM AIX® 5.1, 5.2, 5.3
- IBM OS/390® V4, R10
- IBM z/OS® 1.2, 1.3, 1.4, 1.5
- Red Hat Enterprise Linux® 2.1, 3.0
- Red Hat Enterprise Linux Advanced Server 3, 4
- Sun Solaris 8, 9, 10
- SUSE Linux Enterprise Server 8, 9

## Prerequisites:
Tivoli Workload Scheduler, Version 8.2 or later is the prerequisite of Tivoli Workload Scheduler for Applications.

## Supported applications:
Tivoli Workload Scheduler for Applications interacts with the following products:
- Oracle E-Business Suite
- PeopleSoft
- SAP R/3

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