PRODUCT SHEET
CA Workload Automation Agents

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Operating System, ERP, Database, Application Services and Web Services

CA Workload Automation Agents extend the automation capabilities of the CA Workload Automation solutions to a wide variety of processing platforms to integrate business processing with workload management. Through a broad offering of workload types, customer can initiate workloads and monitor for IT system events, business service events and data changes to dynamically manage and execute business workloads. By directly automating the processing of workloads, business services can be more efficiently and reliably delivered to the end customer.

Overview

Having an agent on a physical or virtual server, with deployable installation and self-maintenance capabilities, provides enormous manageability and visibility into business critical workload processing information, which then can enhance your exception monitoring and reporting capabilities. Detecting and managing server utilization based on CPU or Disk utilization allows you to dynamically and automatically balance workload to make more efficient workload placement decisions, instead of purchasing additional hardware. Having localized agents provides functionality to 1) detect granular changes in data 2) be notified of servers or processes having problems or 3) proactively verify an application status before running production workload to avoid delays or problems. The Workload Automation Agents give you more control and manageability of business processes.

Benefits

Leveraging Java across platforms the CA Workload Automation Agents consume very few resources, are simple to install using silent install methods for software deployment automation, and include self-maintaining automation settings. This agent technology works with the CA Workload Automation solution to control and monitor processes on hundreds and thousands of individual servers across the enterprise from. CA Workload Automation Agents reduce the dependency on scripting, coding and "dummy" procedures. This simplifies the approach to automation and helps to realize the return on investment.

Features

CA Workload Automation includes various types of agents that enable a vast array of workload job types that go well beyond simple executables to allow more efficient design, test, and execution of mission critical workload processes.

Execution and Monitoring of Various Operating Systems

CA Workload Automation Agents allows customers to integrate workload processing across all leading operating system environments such as UNIX, Windows and Linux, to schedule, execute and monitor IT automation events. Having a localized agent present on a server provides extensive monitoring capabilities to detect services and processes in a certain state, monitoring for CPU and Disk utilization to better balance workload, validate the contents of a file to determine accuracy, and even verify the connection to an IP address before trying to FTP data across the network. These agents can manage FTP activity as well as act as the FTP server managing Secure FTP transmissions. When added together with traditional workload processing these additional job types extend the capabilities of workload automation well beyond traditional job scheduling to provide better visibility and manageability as well as allowing secure access to servers. Standard error and standard output information can be accessed or placed directly in a problem management ticket so resolution can be expedited.

NEW CA Workload Automation Agent for i5/OS - The second generation of CA Workload Automation Agent for i5/OS allows IT organizations to integrate workload applications running on the i5/OS platform within the landscape of enterprise workloads running across all other operating systems. The Java-based agent supports file, object and health monitoring, FTP, and

file browsing. The agent can also be managed using UNIX style control commands, or 'Green Screen'.

CA Workload Automation Agent for z/OS - While many customers run the Workload Automation engine on the mainframe, there are some who require managing mainframe workloads from a distributed hosted workload platform. The CA Workload Automation Agent for z/OS provides mainframe strength workload automation, managed and controlled through a distributed engine. The z/OS Agent offers full scale scheduling features to execute, monitor and control mainframe workload. This also includes the unique capability of interfacing with existing legacy mainframe schedulers providing an interface between distributed and z/OS workload. The state of the art rerun/restart capabilities of this agent offer an advanced solution designed to manage job recovery including intelligent job rerun/restart, along with JCL analysis and predictive capabilities.

Integration with ERP Workload Processing

While ERP solutions usually come with an imbedded scheduling capability, they cannot integrate and manage predecessor/successor relationships or workloads outside the realm of the application. This makes managing the end-to-end business process impossible. With a workload automation solution that has full control of the entire enterprise workload, including the ERP systems, end-to-end management is possible. CA Workload Automation offers support for major ERP systems deployed in the market today.

CA Workload Automation Agent for SAP - The CA Workload Automation Agent for SAP acts as an interface between CA Workload Automation and SAP's internal scheduling tools as well as providing direct integration with components of SAP, SAP Business Warehouse and SAP NetWeaver.

CA Workload Automation Agent for Oracle E-Business Suite - The CA Workload Automation Agent for Oracle E-Business Suite provides an interface between CA Workload Automation and the Oracle Concurrent Manager. The Concurrent Manager is Oracle's native scheduler that submits jobs and monitors processes within the Oracle environment..

CA Workload Automation Agent for PeopleSoft - PeopleSoft applications are delivered with an imbedded PeopleSoft Process Scheduler, a built-in scheduler that submits jobs and monitors processes within the PeopleSoft environment. The CA Workload Automation Agent for PeopleSoft

provides integration between CA's Workload Automation solution and the PeopleSoft Process Scheduler.

Application Automation Agents

CA Workload Automation Agent for Application Services and Web Services and CA Workload Automation Agent for Databases - These agents provide the basis to integrate static batch workloads with dynamic components that are intrinsic to composite, service-oriented business applications.

Consider a modern application that is built on J2EE and supported by a relational database backend. For example, a web based application that supports an online business process to order books. With the Workload Automation Agent for Application Services an event sensor can be deployed that will monitor a JMS queue for a specific message, for example a book order. The message is generated through an online application. Once the message is "sensed" by the Workload Automation solution the backend process that is stored as a workload is triggered to process the book order and return a completion message through JMS to the application. During the backend process, the Workload Automation Agent for Databases uses a database monitor to confirm that the order is properly entered into the database table, triggering the JMS message that confirms the book order. This is a very rudimentary example of the capabilities provided for application workload management but gives a perspective of the difference from traditional batch scheduling.

The CA WA Agent for Application Services lets a user perform tasks such as the following:

- Make simple calls to J2EE session and entity beans
- Publish messages to J2EE JMS queues and topics
- Monitor messages from J2EE JMS queues and topics
- Directly invoke methods on Java classes in the agent class path
- Make Java Remote Method Invocation (RMI) calls
- Make an HTTP/HTTPS query or call on a servlet

Application Modernization and Migration

CA Workload Automation Agent for Micro Focus - This agent provides seamless integration between CA Workload Automation and the Micro Focus Enterprise. It helps to ensure the success of mainframe application migration efforts. The CA Workload Automation Agent for Micro Focus provides an interface that enables automation and control of COBOL and JCL Micro Focus jobs. It allows for execution, monitoring and control of batch workloads that are migrated to the Micro Focus Enterprise.

CA Workload Automation Agent for Remote Execution New!- The CA Workload Automation Agent for Remote Execution lets you connect to remote systems on UNIX, HP Integrity NonStop (Tandem), and OpenVMS. You can connect to the remote system using Telnet or Secure Shell (SSH2). With the CA Workload Automation Agent for Remote Execution, you can define and run remote execution jobs. The CA Workload Automation Agent for Remote Execution lets a user perform tasks such as the following:

- Execute commands or scripts on a remote system
- Pass environment variables to the commands or scripts
- Verify the current job status of a given job
- Cancel a running job
- Read the job log
- Get the spool output for a given job

Integration with Data Integration Tools New!

CA Workload Automation Agent for Sql Server New! - CA Workload Automation Agent for Microsoft SQL Server supports integration with SQL Server Agent, a component of Microsoft SQL Server. Using the agent, you can submit and monitor the status of predefined SQL Server Agent jobs including Transact-SQL scripts, SQL Server Integration Services (SSIS) packages, or Replication tasks. You can also retrieve a list of jobs on a given SQL Server Agent, cancel a running job, read the job log to diagnose errors, or get the spool output for a given job or job step.

What's New in CA Workload Automation Agent

- **Supported Workload Automation Engines**

The CA Workload Automation Agent is supported by the following workload engines:

- CA Workload Automation AE (formerly CA AutoSys Workload Automation)
- Note: The CA Workload Automation Agent replaces the CA AutoSys Remote Agents and the UUJMA Agent for Windows, UNIX, Linux, z/Linux and i5/OS.
- CA Workload Automation EE (formerly CA ESP Workload Automation)
- CA Workload Automation SE (formerly CA 7 Workload Automation)
- CA Workload Automation DE (formerly CA dSeries Workload Automation)

- **Enhanced FTP Job—Commands and Parameters** - The FTP job type allows specification of one or more commands to execute prior to file transfer. Use this feature to send site-specific FTP commands to FTP servers.
- **SNMP Manager Functionality** - Configure an SNMP agent plug-in, packaged with the agent, to act as an SNMP manager to emit and listen for SNMP traps.
- **SNMP Jobs** -The SNMP agent plug-in, packaged with the agent, can be defined to run the following new job types:
  - SNMP Subscribe -Subscribe for SNMP trap information.
  - SNMP Trap Send - Send SNMP trap information.
  - SNMP Value Get - Retrieve the value of an SNMP variable.
  - SNMP Value Set - Set the value of an SNMP variable.
- **Wake on LAN Job** - Save energy using the agent's Wake on LAN (WOL) feature to automate the startup and shutdown of your computers.
- **Windows Interactive Job** - Interact with jobs that invoke Windows Terminal Services or user interface processes such as Notepad or the Windows calculator.
- **File System Size Verification for UNIX and Windows Systems** - Define a job that runs on a Windows or UNIX system and specify the minimum amount of file space that must be available for the job to start.
- **IPV6 Support** - In addition to the current IPv4 protocol, the agent supports Internet Protocol version 6 (IPv6).
- **FIPS 140-2 Compliance** - Support the U.S. Government encryption standard.

Other Key Features

Business-Event Based Automation – Simply saying a solution is event-based can mean many different things and tends to confuse the reality of just how dynamic the processing ability can be in today's internet transaction based world. CA Workload Automation Agents not only provide granular processing ability, but they can immediately notify the CA Workload Automation engine to immediately trigger a workload process. Based on the architecture of the engines not being restricted to old job schedule load concepts, CA Workload Automation can efficiently initiate the unexpected workload, without having to preload all the possible workload schedules.. CA Workload Automation Agents extend dependency management across a broad range of systems and applications, allowing users to effectively tie workload processing to service objectives. CA Workload Automation Agents provide the largest library of job types and event sensors of any

Workload Automation solution, and can initiate processing from random and unexpected business transactions.

Security - CA uses security of the managing CA Workload Automation engine to control the automation of enterprise IT events and minimize administration. Individual, group and global permission can be configured through the engine to ensure that only the proper personnel have access to CA Workload Automation Agent systems. CA Workload Automation Agents offer encryption to secure communication between components running on different platforms. They also provide an extensive audit file for failed or unexpected executions.

Full Bi-Directional Control - In addition to enabling control and monitoring from any CA Workload Automation engine, CA Workload Automation Agents allow users to issue commands back to the automation engine to execute work on other agent machines.

Complete FTP Functionality - File transfer coordination enables complete out-of-the-box file transfer capabilities between CA Workload Automation Agents and any standard FTP Server. CA Workload Automation Agents can act as an FTP client to send files to FTP servers as well as an FTP server for the receipt of files from FTP clients. Users can monitor and track the status of file transfers directly from the scheduling interface across the enterprise from a single point of monitoring and control and send alerts when file transfers are complete, ready, overdue or have failed. Secure FTP using SSL is also supported.

The CA Technologies Advantage

The CA Workload Automation solution includes several configuration options for the managing and controlling enterprise workload applications. Customers can choose to use:

1) An engine on the mainframe, and a separate engine on a distributed server
2) A single, highly scalable, and reliable engine on UNIX, Linux or Windows to manage workload across the enterprise, including all agent workload and z/OS applications
3) A single, highly scalable and reliable engine on the mainframe to manage workload across the enterprise, including all agent workload.

CA Technologies allows you to choose the option that best meets your business needs. Customers have relied on CA Workload Automation and Job Scheduling products for many years. Now they can extend the processing capabilities across the enterprise and more efficiently and immediately process the mission-critical workload. CA Technologies is redefining and advancing the capabilities of workload automation by providing innovative new capabilities that allow customers to leverage their long-term investment and move their automation strategy forward by exploiting new technologies with proven capabilities.