



PRODUCT DATASHEET

Cassatt Collage

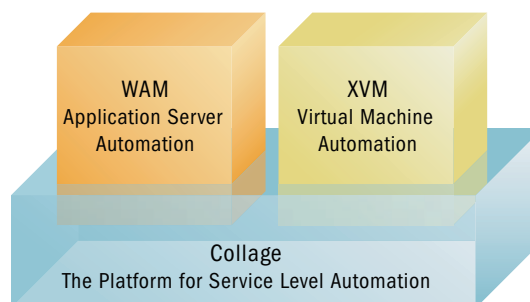
Service Level Automation Platform

What if your business priorities and service-level agreements could be easily converted into simple policies for automatically balancing resources across all of your hardware *and* applications?

With Cassatt Collage, the platform for service-level automation, **you now can.**

Collage manages and assigns hardware, software, virtual machine and application server resources to meet your service levels, and then automatically reassigns those resources as conditions change. In this way, hardware and applications share the peaks and valleys in capacity and demand, enabling you to utilize these resources far more efficiently.

Cassatt works with existing diverse infrastructures, without custom agents, application modification, or proprietary hardware.



Cassatt Collage Platform: Key Features & Advantages

Optimization Engine— Measures, Analyzes and Responds

- Enforces best-fit resource allocation based on your user-defined policies
- Changes system capacities based on run-time events or pre-defined schedules
- Reallocates resources from low-priority or under-utilized applications
- Automatically detects and replaces failed servers
- Integrates with a range of tools and languages via Web Services API
- Monitors system information without Cassatt-specific agents
- Monitors application health and performance via JMX, ICMP, SNMP or custom

Image Delivery— Unchains the Application from the Server

- Quickly deploys application and OS image stack to many servers via network booting
- Manages multiple server images and multiple revisions of each
- Requires that you patch only once to deploy an updated image everywhere
- Enables image rollback to quickly return to previous states if patch side-effects are undesirable
- Deploys upgrades without loss of service

Global Resource Pool— Shares Resources Across Applications

- Allows new resources to be quickly added via automatic hardware discovery
- Provides common free pool for sharing server resources across applications
- Provides maintenance pool for easy tracking of systems needing maintenance

Activity Reporting— Manages TCO and Internal Accounting

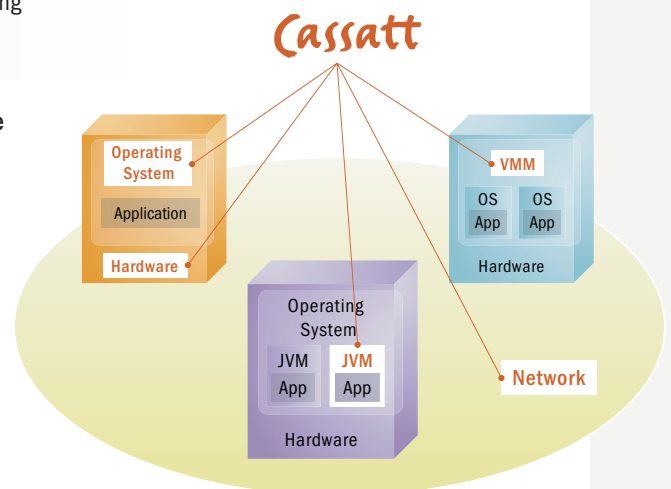
- Tracks how many application licenses are in use at any time
- Tracks resource usage for utility compute billing
- Logs action history records when key changes (e.g. patches) are made

Web Automation Manager (WAM)— Brings Virtualization to Java and Web Services

- Deploys application servers and Java applications automatically
- Automatically maintains service level agreements defined using JMX monitoring
- Automatically scales Java application clusters based on demand

Cross Virtualization Manager (XVM)— Automation for Virtual Infrastructure

- Supports VMware, Xen and Microsoft virtual machines
- Automatically replaces failed physical and virtual servers in minutes
- Automatically maintains applications service level agreements
- Automatically scales virtual infrastructure based on demand



Collage Virtual Control Points

Cassatt Collage Platform Feature Matrix

Automation Engine

Support - Physical Servers	Simultaneous automated management for: Intel, AMD, SPARC
Support - Virtual Servers	Simultaneous automated management for: Windows 2000/2003, Linux, Solaris 8, 9, 10
Maximum Server Count	Simultaneous, support for all major VMs including VMware ESX, Xen (Summer 2006), Microsoft (2H2006)
Service-Level Automation type	Unlimited Physical servers Unlimited Virtual machines
Policy & Service-Level goals	Runtime resource adjustment; Goal-driven engine; best-fit optimization on pre-defined policies and service-level agreements
Automation policy types	Composite goals with extensible rules, including <ul style="list-style-type: none"> - Min/Max resource levels / application - Event-based, schedule-based - Idle threads - Relative priority - Qty of physical servers - Qty of virtual servers - Concurrent licenses - Qty of DB connections - CPU utilization - Memory usage
Application Server Automation	Automatic consolidation optimization, Scale-up / Scale-down, HA / Failover, others
Service governance	Automated Image delivery - provisions new App Server instances and machines
Monitoring Extensions	Automated J2EE service delivery - optimizes server to deploy/undeploy J2EE applications
Application delivery	Via JMX (i.e. thread counts, pending requests, JVM heap stats)
Failure responses	Deployment via delivery of EAR, WAR and JAR files
Physical Servers	Automated real-time node re-start re-provisioning / re-deploy / replacement (including bare server) Automatic node harvesting for load re-allocation
Virtual Servers	Diagnosis & isolation of faulty hardware; migration to spares/repair pool Automated real-time re-starting Migration to new physical server(s) Provisioning from bare server
High availability functions	Automatic application node replacement Automatic controlled node failover Priority-based rule sets Bonded network (unaffected by network, NIC or switch failure)
User Interface	Unified view of all VMs, application services and physical servers
Power Control	Remote power-down of unused/spare hardware

System Management / Provisioning Specifications

Image Management / provisioning	- Base image capture	- Image customization
	- Rolling upgrade	- Image roll-back
Re-Provision time	Typically < 5 minutes for a bare machine (OS + Image)	
System Monitoring compatibility	SNMP, JMX, ICMP, custom	

IT & Management Tools

User Interface	Web browser-based; use anywhere on the network
Accounting & Reporting tools	
Licensing	License use, time, concurrence
Actions	Log of changes, patches, configurations
Asset Inventory	Log of hardware/software assets & configurations
Usage & utility billing	CPU minutes, Physical HW use, other measures
IT Management tool integration	
Compatibility	Tivoli, HP OpenView, other major management packages
Asset tracking	Automatic hardware discovery Free/spare Pools, Maintenance Pools across tiers/domains

System Support

Managed (Application) Server Support	
Hardware compatibility	Pentium, Xeon, Opteron or UltraSPARC
Operating System compatibility	Windows 2000/2003, Linux, Solaris 8,9, 10
Application requirements	No modifications to existing applications
Control Server Support	
Hardware	Pentium, Xeon, Opteron

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