



HP Business Availability Center (BAC) software for Composite Application Management

Data sheet



HP Business Availability Center (BAC) software for Composite Application Management is top-down, end-to-end, lifecycle management software for seamlessly monitoring composite applications in heterogeneous environments.

Effectively manage your composite applications

In today's agile business environment, you need to deploy mission-critical applications quickly. Business agility is a key reason companies are investing in a service-oriented architecture (SOA). Standards, such as web services and SOAP, help make composite applications easier to build, which increases their appeal. At the same time, they increase the rate of change in complex, distributed heterogeneous environments.

Speed of deployment shouldn't be gained at the cost of performance, scalability and availability. Far too much depends on the business outcomes that applications produce. However, according to industry studies, applications are deployed in production with little to no performance testing 80 percent of the time.

This lack of testing is a huge challenge for your IT operations, and your IT personnel have to explain

downtime to your lines of business. Compounding this problem is the growing trend in composite application complexity with business requirements driving technology to integrate and interoperate. Effectively managing composite applications is critical to reducing your business risk and delivering business outcomes. HP Business Availability Center (BAC) software for Composite Application Management provides the management you need for your composite applications.

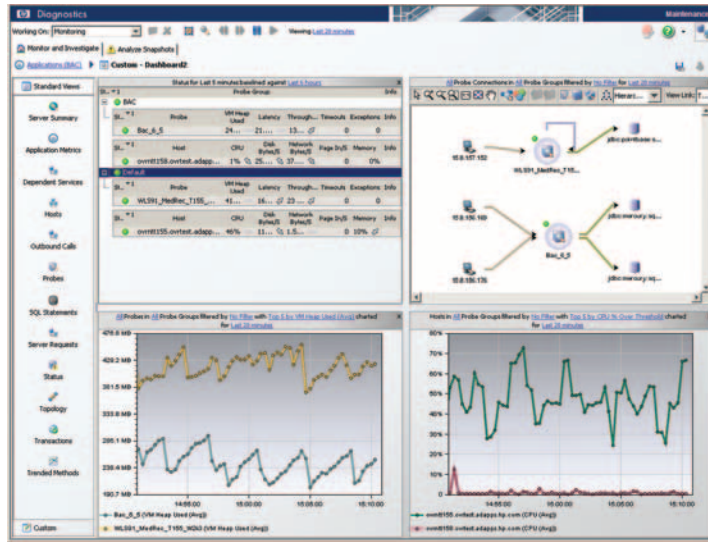
Manage composite applications across the lifecycle

Reactive, ad hoc problem isolation cannot meet the demands of the business and IT in composite application environments. Some of the problems that arise from traditional approaches include:

- Potential risks are identified based on assumptions rather than hard data.
- Quality assurance (QA) teams don't have sufficient time to thoroughly test applications.
- Test environments are not the same as production environments, so problems surface in production even though applications were tested.
- Different teams don't collaborate, so effort is duplicated.
- Systemic data, while important, cannot provide business context to complex transactions.

Trace your transactions

HP BAC for Composite Application Management provides a topology view with transaction tracing for problem isolation, drill down for root-cause analysis, common task automation and detailed metrics.



Many of these problems stem from organizational silos, the need to preserve investments in silo technology and the established structure of the IT organization. Traditionally, businesses had discrete QA teams for different applications, different business units or different systems. In the simplest environment, this was only marginally effective. In SOA environments where composite applications touch multiple silos—J2EE portals, frameworks and Open Source; .NET, ASP.Net and ADO.NET; packaged applications; databases; messaging middleware such as MQ and CICS; and more—it's a recipe for disaster.

To isolate problems efficiently in complex, composite application environments, your IT operations need comprehensive integrated capabilities that let them triage issues in the context of their effect on end users and on the business. Point solutions deployed in silos can't deliver the end-to-end view necessary for having composite applications meet business goals.

How HP BAC for Composite Application Management works

HP BAC for Composite Application Management is top-down, end-to-end, lifecycle software for seamlessly monitoring, isolating problems and identifying root causes in composite applications that run in heterogeneous environments. It consists of end-user management (real and synthetic), HP diagnostics software and HP TransactionVision software, and it fully integrates with HP software management centers across the software lifecycle to help QA and development teams find and fix problems earlier.

Low-overhead, production-ready agents that support industry standards and require no source-code modification are smart collectors of performance data

across heterogeneous platforms and applications. A highly scalable architecture enables hundreds of these agents to send data to a single server for alerts, correlation, instance transaction tracing, aggregation and reporting. The architecture also meets strict security requirements with reverse proxy, HTTPS, configurable role-based authentication and other capabilities. HP Business Availability Center software provides a single view, so you can correlate real usage data with application metrics in transactions, such as a user's page request that invokes a specific web-service operation. You can also follow the transaction across middleware to legacy back-end systems and databases.

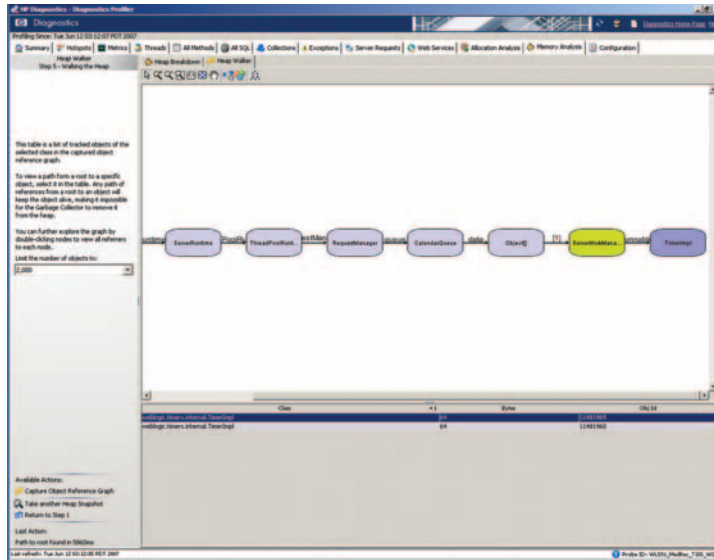
Isolate problems

Most of the time, your IT department is not aware of a problem until an end user reports it. And when the report arrives, IT doesn't know whether the problem affects one user or a million, where the users are, how often the problem occurs, what applications are involved or what the user was doing when the problem occurred. Most of the time spent resolving the problem is really spent isolating the cause.

HP BAC for Composite Application Management helps you quickly isolate the problems that matter to your business. You start with the end user (real and synthetic), then drill down in context into application components, packaged applications and back-end tiers. With HP BAC for Composite Application Management, your IT organization knows the severity of the problem as it relates to your business goals and end-user experiences, and it shows your developers exactly what end users saw so they can analyze problems from the end-user perspective.

Identify and resolve problems faster

HP BAC for Composite Application Management has role-based, root-cause capabilities, helping you resolve problems faster and providing actionable data to subject-matter experts.



Get end-to-end transaction management

In composite applications, business-critical transactions touch many systems, applications, teams and businesses. Locating bottlenecks can be very difficult unless you can trace transactions end to end. Correlating performance metrics at each point in the transaction is even more important. Integration with HP Real User Monitor software, HP diagnostics software and HP TransactionVision gives your IT organizations the ability to trace real-user transactions across technology stacks, middleware and legacy systems. This helps your IT organizations locate bottlenecks quickly in relation to unique instances of end-user transactions and then to collaborate with your lines of business to manage transaction performance. And because transactions are deployed as services in SOA environments, this capability becomes increasingly important as dependencies evolve and complexity grows.

Benefit from advanced root-cause analysis

Our lifecycle approach allows you to provision applications from development to QA to operations with the same agent software. The software can run standalone for developers. For QA, it integrates with HP LoadRunner software and HP Performance Center software. For IT Operations, it integrates with HP Business Availability Center.

This lifecycle solution takes a comprehensive look at problems across systems, infrastructure, applications and services. With HP BAC for Composite Application Management, you can find the root cause of an out-of-memory VM crash by walking the heap. You can identify a hung thread by collecting thread dumps. And you can further analyze to solve production problems.

Integrate with other HP software management solutions

HP BAC for Composite Application Management includes HP End User Management and HP diagnostics software, providing a lifecycle enterprise solution that increases collaboration among development, QA and IT operations, and it works in heterogeneous environments. This software also integrates with HP TransactionVision.

Key features and benefits

- Performs monitoring, transaction management and quick diagnosis of composite applications, including SOA, portals, enterprise resource planning (ERP) and customer relationship management (CRM), MQ and CICS mainframe and databases, across the performance lifecycle, 24x7
- Conducts performance management of end users and transactions in real time and provides contextual drill-down for isolating problems and diagnosis
- Supports transaction tracing in distributed environments across technology platforms, such as J2EE, .NET and SAP NetWeaver, and over various protocols, such as RMI, SOAP and HTTP(S)
- Includes drag-and-drop, role-based dashboards with an incident analysis workspace for collaboration and effective root-cause analysis
- Helps solve memory leaks, hung thread and other complex composite application problems, using advanced root-cause analysis
- Supports a higher standard of performance and availability for composite applications to provide better quality of service to the business

- Features broad platform coverage to support BEA WebLogic Portal, application server; IBM WebSphere Portal, application server; Oracle® 11i E-Business Suite; Oracle Enterprise database; SAP NetWeaver; SAP R/3 business applications; MQ Series and CICS mainframe applications; .NET applications; SOAP and HTTP(S) web services on IBM, SAP, BEA, Oracle and others; Apache and Tomcat-based containers; JBoss; and many other platforms
- Supports custom instrumentations and monitoring support for third-party packaged applications and platforms

A complete solution

Comprehensive training

HP provides a comprehensive curriculum of HP Software and IT Service Management courses. These offerings provide the training you need to realize the full potential of your HP solutions, increase your network optimization and responsiveness, and achieve better return on your IT investments.

With more than 30 years experience meeting complex education challenges worldwide, HP knows training. This experience, coupled with unique insights into HP Software products, positions HP to deliver the optimum training experience. For more information about these and other educational courses, visit www.hp.com/learn.

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Get the most from your software investment

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