



BMC Atrium Discovery and Dependency Mapping

BMC Atrium Discovery and Dependency Mapping automatically discovers physical and virtual IT assets, applications, and the relationships between them — enabling significant cost reductions while dramatically simplifying data center consolidation, disaster recovery, CMDB, and change impact management initiatives.

KEY BENEFITS

- » Uncover cost reduction and consolidation opportunities by quickly determining hardware and software inventories
- » Gain an up-to-date view of dependencies and relationships that make up IT and business services
- » Reduce troubleshooting time and improve productivity
- » Minimize service outages and improve agility by more accurately scoping, assessing risk, executing, and verifying configuration changes
- » Ensure the accuracy of CMDB data through seamless, out-of-the-box integration with the BMC Atrium CMDB
- » Resolve the most urgent incidents faster by using topologies and impact modeling to associate and prioritize incidents by business service criticality

BUSINESS CHALLENGE

IT organizations consistently struggle to accurately answer two fundamental questions about their environments, “what do I have?” and “how is it connected?” A lack of answers to these questions leads to failed changes, longer problem resolution times, inaccurate asset inventories, inefficient data centers, and ineffective disaster recovery plans.

Best practices, such as the IT Infrastructure Library® (ITIL®), stress the need for a “single source of truth” about configuration information — a unified configuration management database (CMDB) — but do not provide a practical method for gathering this information and keeping it current. Manual discovery of physical and virtual IT assets, applications, and the relationships among them is not impossible, but is completely impractical when viewed from a time and cost perspective. And, with virtualization increasing the volume and frequency of change, it’s even harder to get any sense of control, much less build relevant business service models that integrate IT and business initiatives.

THE BMC SOLUTION

Build and Maintain a Comprehensive Database of Asset Information and Interdependencies

BMC Atrium Discovery and Dependency Mapping enables you to easily answer the “what do I have?” question by discovering and collecting details about your IT assets, including accurate hardware and software inventory information on servers, desktops, and network devices. It also helps you answer the next question, “how is it connected?” by identifying the interdependencies of those IT assets.

Map Enterprise Application Dependencies

BMC Atrium Discovery and Dependency Mapping provides a complete logical IT service and application dependency mapping of components within the IT environment, identifying which IT components comprise enterprise applications and business services. These components can include Web servers, application servers, clusters, gateways, databases, and application modules. The solution also maps component dependencies for J2EE applications, SAP®, Siebel Systems, storage, mainframe, Web Services, business processes, storage, and VMware®, Microsoft® Hyper-V, and UNIX® virtualization, as well as for the enhanced integration of these application business processes. It returns both physical and logical infrastructure interdependencies — both upstream and downstream — to the BMC Atrium CMDB by looking at ports, processes, and communications, and by pulling configuration information directly from application server APIs. As a result, both physical and logical mappings are provided, giving you insight into system dependencies.

Automatically Create a Dynamic Service Model

BMC Atrium Discovery and Dependency Mapping automatically discovers the components and relationships of business applications and then automatically builds a model in the BMC Atrium CMDB based on that information. It also continuously scans for changes in those components and relationships, updating the model accordingly.

In more complex virtual environments, BMC Atrium Discovery and Dependency Mapping uniquely can launch targeted discovery scans “on demand” in response to specific events, such as the dynamic move of a virtual machine. Following the targeted scan, the solution automatically exports the updated inventory and dependency information to the BMC Atrium CMDB, which continuously reconciles the data with the appropriate service model, resulting in service models that are as dynamic as your environment and constantly up to date.

KEY FEATURES

- » Comprehensive capabilities to discover assets in even the most complex environments including:
 - Virtual systems, including VMware, Microsoft Hyper-V, and Sun™ Solaris™
 - Clusters and Databases
 - Storage modules and subsystems, including Brocade, Cisco, and EMC
- » Clear, visual mapping of dependencies among both physical (infrastructure) and logical (applications) IT elements
- » Automated on-demand discovery updates in response to virtualization infrastructure changes
- » Continuous data synchronization with the BMC Atrium CMDB
- » Knowledge base of 10,000+ processes and applications
- » Automated data normalization using the DTMF and ITIL based BMC Atrium Common Data Model
- » Multiple data export options to multiple formats, including CSV, Excel, HTML, PNG, and SVG Visio

BUSINESS RUNS ON I.T.

I.T. RUNS ON BMC SOFTWARE

Business thrives when IT runs smarter, faster, and stronger. That's why the most demanding IT organizations in the world rely on BMC Software across both distributed and mainframe environments. Recognized as the leader in Business Service Management, BMC offers a comprehensive approach and unified platform that helps IT organizations cut cost, reduce risk and drive business profit. For the four fiscal quarters ended September 30, 2008, BMC revenue was approximately \$1.83 billion. Visit www.bmc.com for more information.

HOW IT WORKS

An agentless discovery solution that is easy to install and use, BMC Atrium Discovery and Dependency Mapping uses IP address ranges to scope the collection of detailed hardware and software information through multiple methods, including WMI and SSH. The solution provides a broad range of query capabilities for any device, including queries on BIOS, description, DNS name, IP address, label, location, MAC address, manufacturer, model, open TCP port, OS type, processor speed, processor/architecture, software patch, software product, system name, and type.

BMC Atrium Discovery and Dependency Mapping includes hundreds of discovery "signatures" that are used to identify and map a comparable number of common technology dependencies. It also allows you to add customized signatures to discover homegrown applications and their dependencies.

Special-purpose modules are included to discover and resolve both the physical network infrastructure and the logical relationships and dependencies of enterprise applications by directly interrogating these enterprise applications for their configuration, and then correlating that data to physical discovery data. For example, BMC Atrium Discovery and Dependency Mapping can discover all components of an SAP infrastructure, including gateway, database, clusters, application servers, Web servers, SAP modules, and applications, and then map the relationships among these components. In addition, from the Web client, the administrator can select and schedule several available discovery types, such as network discovery, portscan, J2EE WebLogic, IBM® WebSphere®, SAP, Siebel, and many others. The discovered objects are then populated into the BMC Atrium CMDB.

Once discoveries are performed, you can use advanced querying capabilities to select the physical or logical elements that constitute part of an enterprise application, as well as their corresponding relationships. Additional objects can be added, mapped, and saved for future analysis. In addition, topology maps can be filtered by object type to present a view based only on a specific set of attributes, such as application servers that are attached to a given J2EE infrastructure.

Through a direct integration, BMC Atrium Discovery and Dependency Mapping automatically populates its results into the BMC Atrium CMDB. Additionally, through the BMC Atrium CMDB integration, other solutions can leverage the physical and logical dependency data provided by the solution.

PART OF A COMPREHENSIVE DISCOVERY SOLUTION

BMC Atrium Discovery and Dependency Mapping is part of the comprehensive BMC Discovery Solution. The BMC Discovery Solution is a completely integrated toolset that unifies the process for discovering the broadest range of IT assets (including people, process, and technology), documenting the relationships among them, and continuously updating the BMC Atrium CMDB to reflect any dynamic changes to that data. By unifying these comprehensive discovery capabilities into a unique and integrated solution, BMC ensures that you always have an accurate picture of your IT environment, including mainframe and virtual systems, and eliminates the need for fragmented tools that require cumbersome and error-prone manual steps.

FOR MORE INFORMATION

For more information on BMC Discovery, please visit www.bmc.com/discovery.