

## BMC Foundation Discovery

Remotely and automatically retrieve hardware, software, and system information

### BMC® Foundation Discovery:

- > Integrates with the BMC® Atrium™ CMDB and exports to custom or third-party CMDBs
- > Provides schema for custom or third-party CMDBs
- > Utilizes agentless architecture that gathers asset information remotely
- > Reports on installed software to facilitate license management
- > Tracks hardware and software assets to reduce theft
- > Identifies which machines meet system requirements and need upgrades
- > Facilitates sharing of asset information across business units
- > Reduces TCO of network elements
- > Enables IT managers and network administrators to quickly determine hardware and software inventory positions
- > Reduces end-user support costs by enabling help desk personnel to remotely troubleshoot and correct problems
- > Provides asset managers with autodiscovery of everything connected to the network

BMC® Foundation Discovery allows IT operations to optimize business availability and speed up resolution processes by providing the ability to autodiscover all the IT assets in their organization. As the foundational product within the comprehensive BMC Discovery solution, BMC Foundation Discovery lets you remotely scan the entire enterprise and automatically collect asset inventory information — without needing to know what components already exist across your technology infrastructure.

### Business Challenge

Key business services and processes are so dependent on underlying IT technologies that, without them, many business processes would not be possible. Therefore, ensuring that business services run smoothly, efficiently, and securely requires aligning business services with underlying IT infrastructure.

The challenge many IT organizations face, however, is the need to collect asset data across the enterprise with little or no prior knowledge to what is “out there.” They need to identify not only the assets themselves, but how they are configured. Using agentless, autodiscovery technology, IT organizations can remotely collect asset inventory and determine where to put agents for more detailed configuration discovery.

### Build and Maintain a Comprehensive Database of Asset Information

BMC Foundation Discovery enables enterprises to easily discover and collect details about their IT assets, providing accurate hardware and software inventory information on servers, desktops, and network devices. Such devices include routers, switches, network adapters, network addresses, IP subnets, firewalls, network printers, LANs, and WANs.

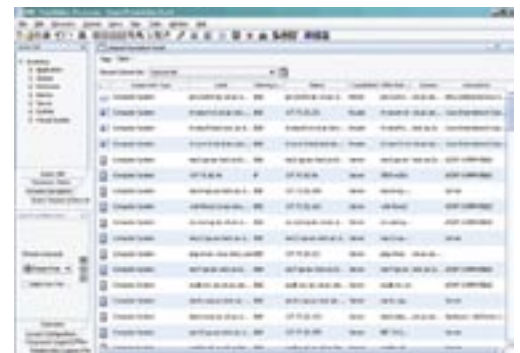
In addition, BMC Foundation Discovery facilitates the export of critical configuration items (CIs) to the CMDB, a centralized database that serves as the “single source of truth” for the enterprise. By providing information to the CMDB, BMC Foundation Discovery ensures that critical asset data is accessible to other key service management processes, including incident and problem management, change and configuration management, and service level management — leading to the ultimate goal

of Business Service Management (BSM). And, because each of these processes is getting valuable, complete, and up-to-date asset information in real time, their efficiency, effectiveness, and value increases. BMC Foundation Discovery provides the foundation asset discovery critical for initial population and maintenance of the CMDB.

By populating an initial database of all IT assets across the enterprise — and by continually monitoring the infrastructure to update that database — BMC Foundation Discovery is a critical building block for the more comprehensive BMC Discovery solution. The data it collects is easily accessed by other products within the suite, enabling key discovery functions, such as the mapping of key configurations to each asset.

### How It Works

BMC Foundation Discovery is an agentless discovery solution that is easy to install and use. By using IP address ranges and a “ping sweep” (scan) of ports currently in use, BMC Foundation Discovery polls the network to collect detailed hardware and software information that can be found in the registries, NETBIOS, Secure Shells, and WMI stores of connected devices. Data related to switches, rout-



ers, and any network hubs is also collected and returned via SNMP.

BMC Foundation Discovery provides query capabilities for any device. The broad range of queries includes: 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.

In addition, BMC Foundation Discovery displays easy-to-read views that enable staff to find information quickly and easily. Features include:

- > Display of discovered components and their properties in table format
- > Display profiles
- > Personalization capabilities that enable users to add or remove columns, sort columns, rearrange columns, or resize columns in the table
- > Ability to save personalized views as a set, and then apply them to other tables
- > Queries that configure and display results in exportable tables
- > Ability to export views to a file in a variety of formats, including PDF, Excel, RTF, HTML, and CSV

Finally, BMC Foundation Discovery provides extensive reporting capabilities that enable IT staff to display information in a variety of ways, including:

#### Hardware Inventory Reports

- > Hardware summary
- > Enumeration
- > Other devices

#### Software Inventory Reports

- > Software (all)
- > Software (Microsoft Windows NT only)
- > Software (UNIX only)

#### List Inventory

- > By system name
- > By operating system

#### Asset Summary Reports

- > Platform summary

#### Key Features

- > Integrates with the BMC® Atrium™ CMDB and exports to custom or third-party CMDBs

- > Provides schema for custom or third-party CMDBs
- > Discovers the physical infrastructure, including network devices, PCs, servers, and printers
- > Allows scheduling discoveries to update data
- > Uses unique fingerprinting mechanism, which requires no credentials, to determine which endpoints require an agent
- > Provides filtering capabilities at the discovery level, including new data-point collection for hardware only, software only, patches only, etc.
- > Improves SNMP data collection, including retrieval of the serial number
- > Determines what has changed between two discovery cycles by providing a delta management view
- > Delivers management and visualization data in tabular view of new objects, as well as parameter changes between various discovery cycles
- > Provides CMDB export enhancements, including configuration tool, improved monitoring, export optimization, and error handling
- > Runs new types of queries, including exported objects, export ongoing, and export timestamp, to determine status of the objects in relation with CMDB

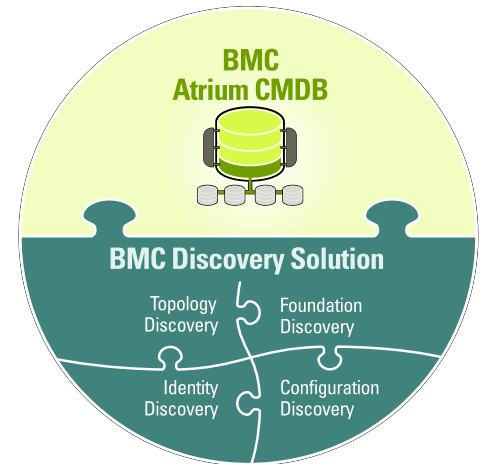
#### Part of a Comprehensive Discovery Solution

BMC Foundation Discovery is part of the complete discovery solution from BMC, which also includes BMC® Configuration Discovery, BMC® Identity Discovery, and BMC® Topology Discovery. This comprehensive, modular solution addresses the entire spectrum of asset discovery activities and replaces fragmented tools that require cumbersome and error-prone manual steps. In doing so, the solution provides a unified, automated process for identifying all assets in the environment; cataloging them in a common database; and keeping the data current by discovering changes and keeping data up to date.

BMC Discovery is unique in its ability to capture information in all four facets of the IT environment:

- > Assets — What is the total inventory of deployed assets?

- > Configurations — What are the components and settings?
- > Relationships — What are the interdependencies?
- > Users — Who is using these resources?



#### Automated Discovery: The first step toward BSM Success

By providing answers to these questions — and by maintaining the data in the CMDB — the BMC Discovery solution enables IT organizations to take a critical first step toward aligning their infrastructure to meet the needs of the business. As such, it helps to build the foundation for successful Business Service Management — quickly, efficiently, and cost-effectively.

For more information on BMC Discovery, please visit [www.bmc.com/discovery](http://www.bmc.com/discovery).

#### About BMC Software

BMC Software helps IT organizations drive greater business value through better management of technology. Our industry-leading Business Service Management solutions ensure that everything IT does is prioritized according to business impact, so IT can proactively address business requirements to lower costs, drive revenue, and mitigate risk. BMC solutions share BMC® Atrium™ technologies to enable IT to manage across the complexity of diverse systems and processes — from mainframe to distributed, databases to applications, service to security. Founded in 1980, BMC has offices worldwide and fiscal 2005 revenues of more than \$1.46 billion. BMC Software. Activate your business with the power of IT. For more information, visit [www.bmc.com](http://www.bmc.com).



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