

HP Discovery and Dependency Mapping software

HP Discovery and Dependency Mapping Advanced Edition (DDMA) software automatically and continuously maps IT applications and infrastructure elements providing visibility and control of your IT environment.

Data sheet



Map IT to your business

Are your service dependency maps of IT application and infrastructure frequently out-of-date or non-existent? Without visibility into IT applications and infrastructure dependencies, it is difficult and time-consuming to prioritize, triage, and resolve incidents.

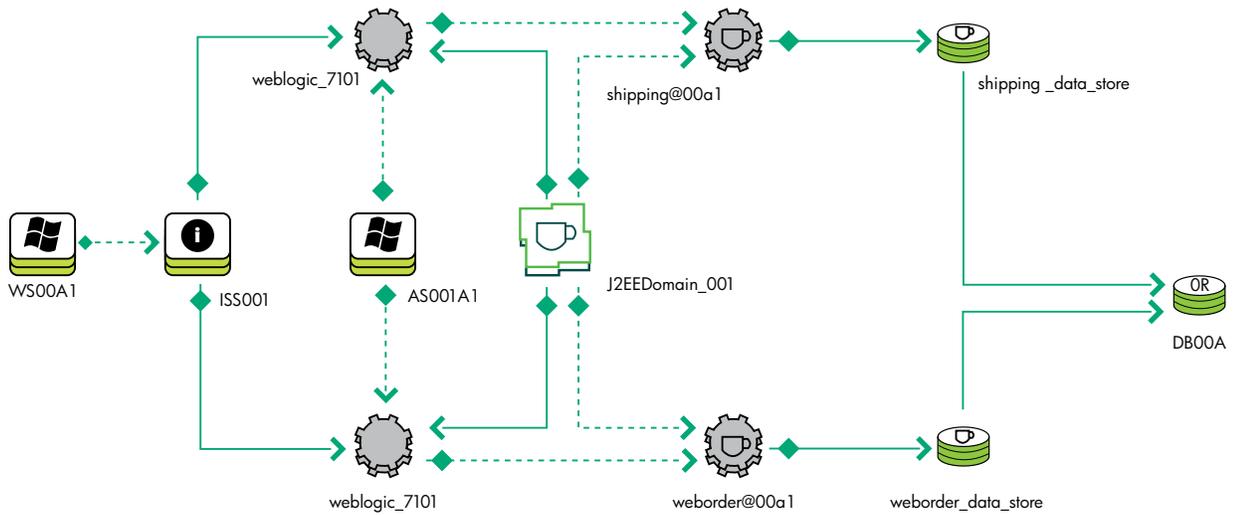
An understanding of how IT applications and infrastructure work together is fundamental for effective service delivery. This understanding must be comprehensive, timely, and take into account the complex Web of interdependencies that make up today's multi-tiered infrastructures. Historically, enterprises have relied on manual processes to create maps that reflect their infrastructure and interdependencies. Time and again this proves insufficient given the size, complexity, and high frequency of change associated with today's modern, distributed, and multi-tiered infrastructures.

HP DDMA software addresses this challenge. It dynamically discovers and continuously maps IT service dependencies to provide visibility and control over business services with minimal effort and cost (see Figure 1). It also populates the HP Universal Configuration Management Database (CMDB) to create an accurate model of your IT environment. HP DDMA and the HP Universal CMDB are tightly integrated and share the same DNA. HP DDMA combined with the HP Universal CMDB enables a top-down and bottom-up view of the relationships between IT elements and business services. HP DDMA generates an automated, continuously updated map showing both IT elements and relationships and populates this data into the HP Universal CMDB. This tight integration streamlines data instantiation, updates, and predictive change impact analysis rather than relying on piecing together two or more separate solutions.



Figure 1

HP Discovery and Dependency Mapping Advanced Edition (DDMA) software and the HP Universal CMDB software work together to provide the ability to visualize and understand the configuration items and their relationships that deliver critical business services.



Breadth and depth of discovery

HP DDMA provides the basis for understanding the services that IT delivers—from the physical layer of the data center all the way to the business process layer.

Unlike network-oriented discovery products or asset inventory products, HP DDMA explores configuration items (CIs) from Layer 2 through Layer 7 of the Open Systems Interconnection (OSI) model, as well as deep-device and application-specific information. Importantly, it also explores and maps the relationships between these elements beyond the traditional uses and contains relationship types. It is object-oriented, allowing specific CIs and relationships to be discovered using a library of discovery patterns that can capture:

- High-level applications and their components, such as Citrix, MQ, SAP, and Siebel
- J2EE or .NET components
- Custom or legacy applications
- Database components, such as tablespaces, users, and jobs
- Servers and server resources, such as CPUs, memory, network interfaces, and storage devices
- Network devices, such as routers, switches, load balancers, switch ports, VLANs, and firewalls

- Storage elements, including storage arrays, logical disks, and interconnectivity between SAN elements
- Virtual environments for VMware, Microsoft®, and Citrix platforms; including virtual file systems, disks, network interfaces, and management servers
- Mainframe attributes such as lpars, sysplexes, tcp, udp, and start tasks
- The relationships that exist between all of the above elements

Third-party product integrations support the mapping of lower and higher layers of the OSI model as well. For instance, HP DDMA integration with the Aperture Vista product helps you understand the physical layer of the data center such as what physical racks servers are deployed onto (OSI layers 0 and 1). Integrations with third-party products such as Troux provide insight into which business processes depend on which IT infrastructure.

HP DDMA also supports integration with other IT solutions to leverage deep configuration information around specific IT domains. Domains such as storage, server, or network environments can be extended through integration with solutions such as HP Storage Essentials software, HP Network Node Manager software, and VMware VirtualCenter.

Spiral methodology

Spiral discovery characterizes the HP approach to active discovery. Active discovery is performed by discovery patterns—essentially pieces of functionality that allow HP DDMA to gather a specific type of information. Each discovery pattern gathers only a small piece of the puzzle. By running multiple patterns, each building on the next, a rich model of the IT environment is created. This approach is highly efficient and can be easily tailored to meet the unique requirements of your IT environment.

Extending discovery

You can extend and customize the discovery process by discovering new and custom attributes, adding new CI types to the class model, and using a discovery pattern for integration and reconciliation with an external data source. Discovery patterns are written in Jython, a standard programming language. You have full access to the same set of libraries for pattern creation and modification that HP uses in development. HP-supplied patterns can be retrieved, configured, edited, as well as used as the basis for completely new discovery patterns.

Controlling discovery

IT organizations have complete control over the timing, frequency, scope, and downtime windows in the discovery process. For example, you can configure HP DDMA to perform a low-level network sweep once per month, discover routers and switches once per week, and discover Web servers every six hours. Each discovery run can add new CIs to the CMDB and make changes to existing CIs.

Using discovered data

HP Discovery and Dependency Mapping gives you the power to accurately discover what exists in your IT environment and map how it relates to other IT elements that support your business-critical services. This information is then stored in the HP Universal CMDB and made available to other solutions in your IT environment so that everyone in IT can use the same service context. Beyond this, the HP Universal CMDB provides value-added capabilities that include:

- The ability to capture change history each time a change to a CI is discovered
- The ability to compare CIs or sets of CIs to support a range of IT needs, including compliance and gold standard requirements

- The ability to create simple impact modeling rules that can be used to support predictive change impact analysis

Foundation for a configuration management system

ITIL Version 3 (v3) recognizes the need for IT to seamlessly share data across the IT ecosystem without regard to where this information is stored. This concept is defined in ITIL v3 as a configuration management system (CMS). The heart of a CMS is an integrated CMDB that provides access to both core CI data that is stored in a CMDB alongside non-CI data that is stored elsewhere in the IT ecosystem. Federation is the key capability that allows the HP Universal CMDB to support this seamless sharing of data. This approach:

- Eliminates the need to copy and store large amounts of non-CI data into your CMDB
- Increases the ability to leverage non-CI data stored in multiple IT solutions for both proactive and reactive uses
- Reduces the need to establish and maintain point-to-point integrations across many IT solutions

DDMA community at HP Live Network

DDMA community on HP Live Network is a 24/7 platform for delivering up-to-date content for HP Discovery and Dependency Mapping. Through HP Live Network, customers who have purchased HP DDMA get access to:

- Downloadable content packs, integration packages, and documentation
- Discussion forums on HP DDMA and related topics
- Community contributed discovery content and best practices from HP partners and customers

Key features and benefits

To help you diagnose and resolve problems more quickly, HP DDMA automatically and continuously discovers your IT environment and maps interdependencies from layer 2 to layer 7 of the OSI model and stores this information in the HP Universal CMDB. This supports the following benefits:

- Minimize the finger pointing within IT by creating a common view of the services that IT delivers and how the IT infrastructure supports these services
- Accelerate incident and problem resolution through automated change tracking
- Understand the potential impact of changes prior to executing them through predictive change impact analysis
- Identify compliance issues by comparing CIs to gold standards
- Integrate tightly with the HP Universal CMDB to support ITIL processes

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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License flexibility

Advanced edition

The HP Discovery and Dependency Mapping Advanced Edition is a perpetual license that contains the full-range discovery and integration capabilities supporting discovery of elements and relationships from layer 2 through 7 of the OSI model.

Term licenses

To meet the requirements of time-based projects such as data center consolidation initiatives, customers can take advantage of term licenses that can be matched to the lifespan of the projects. Three- or six-month advanced edition term licenses can be purchased for the duration of short-term projects and renewed as needed.

In addition, we offer HP DDMA and HP UCMDDB on Software-as-a-Service for customers who want a ready-to-use solution, around-the-clock operations, and expert help in discovering their IT environment, creating and maintaining a business-centric configuration management database.

HP Services

Get the most from your software investment.

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