What’s new with HP Discovery and Dependency Mapping Advanced Edition (DDMA)

Solution brief
Introduction

HP Discovery and Dependency Mapping Advanced Edition (DDMA) software provides this visibility into IT by automatically and continuously mapping IT applications and infrastructure elements and generating top-down and bottom-up views of the relationships between IT elements and business services. It also generates an automated, continuously updated map showing both elements and relationships and populates this data into the HP Universal CMDB (UCMDB).

HP DDMA and UCMDB are the two key components of HP’s Configuration Management System (CMS) that closely aligns with the ITIL v3 CMS definition: tools for collecting, storing, managing, updating and presenting data about all Configuration Items and their Relationships.

HP DDMA explores configuration items (CIs) from Layer 2 through Layer 7 of the Open Systems Interconnection (OSI) model, as well as deep device application information. Integrations with third-party vendors offer the mapping of lower and higher levels.

Rapid content delivery via DDMA community on HP Live Network

HP offers value beyond the solution itself by offering up-to-date content, product information, and access to experts, and best practices via the 24x7 online communities at HP Live Network. Discovery Content or integration adapters are released once ready at the DDMA community on HP Live Network as an independent early access release. These content are later grouped together and released as content packs on a quarterly basis.

Through the DDMA community on HP Live Network, customers get access to:

• Content packs that includes content that extends the breadth and depth of discovery with new discovery patterns and integration with partner
• Shared discovery content and best practices from HP partners and customers
• Discussion forums on DDMA and related topics

What’s new with latest DDMA content packs?

The latest two content packs, content pack 8 announced in January 2011 and content pack 7 announced in September 2010 delivers new and enhanced functionality in the following areas:

Content pack 8

This section provides information about new features and enhancements to Content Pack 8.

Troux Integration

Troux Technologies, Inc., the leader in Strategic IT Planning and Control software. The integration with HP UCMDB and Discovery and Dependency Mapping Advanced edition (DDMA) enables IT operations customers to save costs and identify technology risks. In addition this integration supports improved change management processes by providing enhanced business service context about application ownership and business processes.

Figure 1: Troux Integration
By connecting Troux with HP UCMDB, IT operations customers can make quicker, business value-based decisions about everything from disaster recovery to strategic product road maps. These decisions occur as a result of being able to see how business changes and IT operations impact one another. Specifically customers can quickly relate their operational and infrastructure information with details about technology lifecycles, applications, and the business as well as pending projects stored within Troux.

Depending on the use case a provider of record is determined, for instance UCMDB will be the provider of record for inventory information such as server OS, server hardware & database and other infrastructure Configuration Items (CI’s). Troux on the other hand will provide component lifecycles for server OS’s, server hardware, database versions.

**Mainframe Discovery**

EView/390z Discovery from HP partner EView Technology is a new IBM mainframe-z/OS environment discovery offering extending the HP Discovery and Dependency Mapping Advanced Edition (DDMA) software.

EView/390z Discovery along with the HP DDMA Mainframe content in the content Pack 8 enables IT organizations to quickly and easily build an inventory of critical physical and logical entities, and the very important interrelationships between these entities. This new solution from EView Technology will replace the existing HP DDMA Mainframe Agent which is an add-on module for HP DDMA.

The discovered information includes: LPAR and Operating System, DB2 subsystems, CICS regions, IMS subsystems, Sysplex, Network Information, Installed software, and MQ Subsystems. The highly flexible auto-discovery enables the HP UCMDB to maintain the most precise and current configuration data, providing the enterprise a single point of accuracy for the mainframe data.

**HP NonStop Discovery**

Since its inception in the mid-1970s, the HP NonStop server has held an important role in helping global business run smoothly, effectively, and successfully. Today, NonStop servers process the overwhelming majority of credit card, automated teller machine (ATM), and securities transactions. The world’s leading enterprises rely on NonStop servers, including 106 of the 120 largest stock and commodity exchanges and 135 public telephone companies.
This discovery solution, based on the SSH protocol, supports HP NonStop H06.x, NonStop SQL/MX 2.3, and the NonStop SQL/MP H01 series. The discovery is expected to work on all available versions of HP NonStop.

**PowerShell Protocol Support**

Windows® PowerShell is Microsoft’s® task automation framework, consisting of a command-line shell and associated scripting language built on top of, and integrated with, the .NET Framework. PowerShell provides full access to COM and WMI, enabling administrators to perform administrative tasks on both local and remote Windows systems. It’s now available out of the box with Windows 2008 and is installable on any previous versions of Windows. PowerShell is the MS Windows’s preferred next generation Remote Management API.

The new content enables the discovery of host connection, resources and applications using the PowerShell protocol.

Deep Discovery of Microsoft SharePoint is now supported via PowerShell as well.

**VMware Enhancements**

The enhancements to VMware Discovery include adding support for vSphere 4.1, networking discovery on ESX/VC.

**Clustering enhancements for MS SQL Discovery**

Applications running in clustered environment are mapped to the physical node instead of being mapped to clustered Server after they are discovered by DDMA. Content pack 8 addresses this issue for MS SQL applications.

**Multi Link Trunking (MLT) device discovery enhancements**

This enhancement adds the ability to discover “link aggregation” for SunOS, HP-UX, AIX operating systems, so that multiple network interfaces are not joined to one virtual device. This results in missing interfaces and can have a severe impact on the host discovery. If one of the joined interfaces has the lowest MAC address, it can result in creating a second host CI if the interface configuration changes (two CIs for one host).

**SAP Discovery Enhancements**

This enhancement allows customers to set several client numbers in SAP credentials making the credentials definition process much easier.

**Content Pack 7**

This section provides information about new features and enhancements to Content Pack 7 that focused on discovery of virtualized environment.

**Solaris Zones discovery**

With Content pack 7, customers can discover Solaris zone topology. The Solaris Zones partitioning technology is used to virtualize operating system services and provide an isolated and secure environment for running applications. A zone is a virtualized operating system environment created within a single instance of the Solaris Operating System.
IBM Hardware Management Console (HMC) discovery

The IBM HMC discovery package enables the discovery of virtually partitioned SMP systems. HMC is a technology invented by IBM for the purpose of providing a standard interface for configuring and operating partitioned (also known as an LPAR or virtualized system) and SMP systems such as IBM System I or IBM System p series.

Figure 4: IBM HMC discovery

HP Integrity partitioning solution discovery

Content pack 7 supports the discovery of native partitioning solution, nPartitions and vPartitions, on HP Integrity servers.

Cell-based HP Integrity servers enable you to configure a single server complex as one large system or as multiple smaller systems by configuring nPartitions (nPars). Each nPartition defines a subset of server hardware resources to be used as an independent system environment.

The vPars is a virtual partitioning solution that enables you to run multiple instances of Operating Systems (OS) simultaneously on one hard partition by dividing that hard partition further into virtual partitions. Each virtual partition is assigned its own subset of hardware, runs a separate instance of the OS, and hosts its own set of applications.

IBM High Availability Cluster Multiprocessing (HACMP) discovery

High Availability Cluster Multiprocessing (HACMP) is an IBM solution for high-availability clusters on the AIX UNIX® and Linux for IBM System p platforms. The HACMP package discovers HACMP on AIX via TTY (SSH or Telnet protocols). The package follows the discovery model to discover the HACMP Topology (configured networks, node interfaces—both public TCP/IP and serial heartbeat, and service IPs) and Application Resources (configured resource groups, application servers, and volume groups).
Sun Cluster discovery
This package enables the discovery of Sun Cluster environment. The Sun Cluster product is an integrated hardware and software solution used to create highly available and scalable services. The Sun Cluster environment extends the Solaris Operating System into a cluster operating system. A cluster is a collection of one or more nodes that belong exclusively to that collection.

Database Connections by Host Credentials
This package enables database auto-discovery using host level credentials in UCMDB. In certain cases, a DDMA user/administrator does not have detailed information about the database such as its name or SID, listener port number etc. The solution in this package will auto-discover this information with minimal inputs, and enables end-to-end discovery of databases.

Xen discovery
This package enables the discovery of Xen based virtualized environment. The Xen hypervisor, the powerful open source industry standard for virtualization, offers a powerful, efficient, and secure feature set for virtualization of x86, x86_64, IA64, ARM, and other CPU architectures. It supports a wide range of guest operating systems including Windows, Linux, Solaris, and various versions of the BSD operating systems.

Hyper-V discovery
This package enables the discovery of the Microsoft Hyper-V based virtualized infrastructure. Hyper-V Server is a stand-alone product that provides a simplified, reliable, cost-effective, and optimized virtualization solution enabling organizations to improve server utilization and reduce costs.

Network Node Manager i (NNMi) Integration Enhancements
Content pack 7 adds the support of VLAN, Port, HardwareCard to the NNMi integration. It also has support for updated topology to align with OOB Layer 2 topology.

DNS Zones
DNS Zone discovery retrieves the DNS Zone topology and records that belong to the zone. To transfer the zone, the machine performing the query should be included in a white list configured in the name server.

HP Systems Insight Manager (HP SIM) Integration
The integration of UCMDB with HP Systems Insight Manager (SIM) involves synchronizing devices, topology, and hierarchy of a data center infrastructure in the UCMDB. This will enable change management and impact analysis across all business services mapped in UCMDB from an infrastructure point of view.
The integration currently involves a UCMDB initiated discovery on the Systems Insight Manager server through Web Service calls. Synchronized Configuration Items (CIs) include nodes such as Windows, and UNIX servers, network devices, printers, clusters, cellular/partitioned systems, blade enclosures and racks. Some server components such as CPU, memory, etc. are also synchronized.

**Import from Excel Workbook**
This new package enables the import of uCMDB topology from excel (*.xls, *.xlsx) files.

To learn more, visit [www.hp.com/go/ddm](http://www.hp.com/go/ddm)