HP Universal CMDB

for the Windows and Solaris operating systems

Software Version: 8.03

Glossary

Document Release Date: June 2009
Software Release Date: June 2009

Legal Notices

Warranty

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

Restricted Rights Legend

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright Notices

Trademark Notices

Adobe® and Acrobat® are trademarks of Adobe Systems Incorporated.

Intel®, Pentium®, and Intel® Xeon™ are trademarks of Intel Corporation in the U.S. and other countries.

Java™ is a US trademark of Sun Microsystems, Inc.

Microsoft®, Windows®, Windows NT®, and Windows® XP are U.S registered trademarks of Microsoft Corporation.

Oracle® is a registered US trademark of Oracle Corporation, Redwood City, California.

Unix® is a registered trademark of The Open Group.

Documentation Updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

To check for recent updates, or to verify that you are using the most recent edition of a document, go to:

http://h20230.www2.hp.com/selfsolve/manuals

This site requires that you register for an HP Passport and sign-in. To register for an HP Passport ID, go to:

http://h20229.www2.hp.com/passport-registration.html

Or click the **New users - please register** link on the HP Passport login page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

Support

Visit the HP Software Support web site at:

http://www.hp.com/go/hpsoftwaresupport

This web site provides contact information and details about the products, services, and support that HP Software offers.

HP Software online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support web site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract. To register for an HP Passport ID, go to:

http://h20229.www2.hp.com/passport-registration.html

To find more information about access levels, go to:

http://h20230.www2.hp.com/new_access_levels.jsp

Glossary

This document lists terminology that is used throughout the documentation.

adapter

An entity in federated CMDB responsible for retrieving and updating data in an external data store (data that is not saved in the Universal CMDB). The adapter is aware of how specific data in the data store is modeled and knows the vendor-specific protocol for communicating with the data store.

CI

See configuration item (CI).

CIT

See configuration item type (CIT).

configuration item (CI)

A component of the CMDB that represents a physical or logical entity in the system. For example, CIs can represent hardware, software, services, or business processes. The CIs are organized into a hierarchical format based on the dependencies in your organization's IT environment.

configuration item type (CIT)

The category for each configuration item (CI). Each CIT provides a template for creating the CI and its associated properties.

Configuration Item Type Manager (CI Type Manager)

The definitions of all the configuration item types (CITs) defined in the system and the relationships that define the connections between them.

configuration management database (CMDB)

The core information repository of HP Universal CMDB. The CMDB stores and handles the infrastructure data collected and updated by Discovery and Dependency Mapping, or by federation. The information concerning discovered CIs and relationships is deposited, grouped, and updated in the form of CITs according to ITIL methodology.

data store

Any data storage system, such as a CMDB or relational database, where external CIs and relationships are located.

Discovery and Dependency Mapping job (DDM job)

Jobs include pattern parameters, scheduling information, and TQL assignments. This separation between jobs and patterns enables the reuse and upgrade of patterns. All customization resides in the job which means that one pattern can be used for different schedules and with different parameters. (In versions earlier than 7.0, a job included both the pattern and the pattern configuration.)

Discovery and Dependency Mapping module (DDM module)

One or more Discovery and Dependency Mapping jobs that together enable the discovery of a specific technology or application. See Run Discovery.

Discovery and Dependency Mapping Probe (DDM Probe)

The main discovery component responsible for requesting tasks from the HP Universal CMDB server, dispatching them to the IT components, and sending the results back to the CMDB through the server. The Probe includes two components: the Probe Gateway and the Probe Manager. The Gateway provides communication (http or https) between the Manager and the server, for processes such as downloading tasks and returning task results. The Manager runs the process itself. The Gateway communicates with the Manager using RMI. One Gateway can connect to several Managers. Usually, the Manager and the Gateway run as one process.

domain (Discovery and Dependency Mapping)

A logical term for a customer site where each IP address is individual, that is, each domain must contain unique IP addresses. There are two types of domains: customer, for a specific customer site that contains private IP addresses; external, for the Internet (public) domain that contains all the IP addresses that are not included in the customer site (used when upgrading from version 6.x systems).

external class

A class defined in the HP Universal CMDB class model whose instances are stored in external data stores and not in HP Universal CMDB.

federated CMDB

Implementation of the CMDB so that it includes data from external data stores, in such a way that the source of the external data retains control of the data.

federated TQL (FTQL)

A TQL that contains external CITs in its definition.

Federation Framework

In federated CMDB, the Framework acts as a mediator between HP Universal CMDB and the adapters, as well as a container for the federated adapters.

folding rule

Folding rules are added to relationships to define the organizational structure of CIs in the topology map, by displaying selected CIs at different levels (layers). There are four folding rules: parent, child, right sibling and left sibling. When no folding rules are defined, the topology map displays all CIs included in a query result on one level. For example, if a query result includes a CI and its child, both CIs are displayed on the same layer in the topology map.

Framework

In Discovery and Dependency Mapping, an API that can be used to retrieve information required to run the Jython script, such as information on the trigger CI and pattern parameters. For example, Framework.getTriggerCIData(String attributeName) provides an interface between the Trigger CI data defined in the pattern and the Jython script. Framework is also used to report on errors that occur during running of the script.

HP Business Availability Center

HP's solution for real-time performance and availability monitoring from a business perspective, service level management, end-user management, system availability management, and custom reporting.

HP Universal CMDB

An application that enables you to manage and display all the topological objects contained in a managed world. It can precisely identify and report problems in the managed world at any topology level, from the service level down to the level of individual objects.

inheritance relationship

CITs that inherit the attributes and behavior (such as the label function) of the parent CIT.

IT universe model

Part of the CMDB, responsible for holding the CIs and the relationships between the CIs. The IT universe model is organized into a hierarchical format that represents your organization's IT environment.

job execution policy (Discovery and Dependency Mapping)

A set of parameters that defines a blackout period when jobs in a discovery should not run.

Manage Resources (Discovery and Dependency Mapping)

The application that enables you to configure the resources needed to run a discovery.

mapping engine

A component that identifies links between CIs from different data stores that have virtual relationships between them. The identification is performed by reconciling HP Universal CMDB CIs and external CIs.

modeling

The process of mapping the complex relationships between servers, network, storage, and software, and logical elements such as business services, VPNs, and end users.

multinode

An artificial entity defined in an adapter for reconciliation. For example, if reconciliation is done by a host CI, a host multinode is defined and all fields used for reconciliation are mapped to columns in the database.

OID (Discovery and Dependency Mapping)

A vendor's authoritative identification number assigned to devices in a network for SNMP identification purposes.

An identifier, usually a string of integers, that uniquely identifies a particular object in a system.

package

A subset of resources defined by certain criteria. Enables actions, such as the discovery of specific IT infrastructure assets, and moving resources from one system to another.

Package Manager

Enables you to deploy some or all of a package's resources to the CMDB from your local directory, as well as export some or all of a package's resources in the Package Manager to your local directory.

pattern

An XML file that is used by Discovery and Dependency Mapping to discover specific components in a system. A pattern is one of the resources of a job and includes parameters, scripts, and other code needed for discovery, as well as an input TQL that describes the potential input CIs and relationships that are created with each specific pattern.

pattern view

The pattern view enables the query to the CMDB by defining topology query language (TQL) queries (see Topology Query Language (TQL)).

perspective

A pattern to be applied to a model or a collection of CIs to create a perspective based view using the Modeling Studio.

reconciliation

The process of resolving data from two or more sources, either by resolving to a common naming schema or resolving data overlap differences within the records to a single answer.

resources

Applications, databases, network devices (hardware and software), and servers that are discovered and managed by HP Universal CMDB.

Run Discovery

Enables the discovery of a specific technology or application. For example, Run Discovery can discover network components such as IPs, servers, switches, and routers. Run Discovery manages the DDM process by defining the scope, defining the protocols, defining the connection data for the protocols, and activating the jobs.

Set up Probes (Discovery and Dependency Mapping)

The application that enables you to configure Probes and credentials.

Show Status Snapshot (Discovery and Dependency Mapping)

Enables you to view current information on all active jobs running on the Probes.

signature

The state of properties in the CI. If changes are made to property values in a CI, the CI signature must also be changed. The CI signature helps detect whether a CI has changed without the need to retrieve and compare all CI properties. Both the CI and CI signature are provided by the appropriate adapter. The adapter is responsible for changing the CI signature when the CI properties are altered.

subgraph

A graph that represents additional TQL query data related to a specific CI.

system report

A report that is based on a specific Report TQL query. The report display statistics about a query results and can be defined to display very detailed and focused information.

Topology Query Language (TQL)

A language and tool for discovering, organizing, and managing IT infrastructure data. It is used to create queries that retrieve specific data from the configuration management database (CMDB) and display that data. TQL enables you to draw conceptual relationships between CIs and create visual images of IT infrastructure resources.

trigger CIs

Following installation, the network on which the Discovery and Dependency Mapping Probe is located, the host on which the Probe resides, and the host's IP address are automatically discovered and a CI is created for each of these objects. These discovered CIs are placed in the CMDB. They act as triggers that activate a job. Every time a job is activated, the job discovers more CIs, which in turn are used as triggers for other jobs. This process continues until the entire IT infrastructure is discovered and mapped.

trigger nodes

A node can be defined as a trigger node in Correlation Manager. Correlation Manager enables you to simulate how infrastructure changes you want to make impact your system. A node defined as a trigger node is the root cause node, or the node that represents the changes you want to make to the system.

trigger TQLs

Define which specific CIs should be the trigger CIs for a job.

triplet

The allowed steps in a path in a topology graph leading from the source CI to the target CI when creating a subgraph definition, a compound relationship, or a calculated relationship.

view

A collection of CIs and relationships represented by icons. These CIs and relationships are the result of a TQL query to the CMDB, and are displayed as a view according to display and organizational rules that are assigned to them. Each CI/relationship can be presented in multiple views or by multiple icons in different view layers.

View Explorer

A tool used in various applications for displaying, managing, and searching within the CI views.

virtual relationship

A relationship between two graph nodes that come from different data stores. The instances of these relationships do not exist in any data store and are created during FTQL calculation.