



hp WBEM solutions



hp technical
data sheet

hp-ux domain name system CIM provider

provider overview

description

The Domain Name System provider makes available domain name information. The Domain Name System provider instruments the PG_DNSService subclass of the CIM_Service class by adding the properties SearchList and Addresses.

- SearchList specifies the search list for hostname lookup.
- Addresses specifies the name(s) or IP address(es) in dot notation format of the name server(s) that the resolver should query.

Currently, the provider does not support all the properties of the CIM_Service class or its superclasses. This provider extends the CIM_Service class that describes a Domain Name System (DNS).

This provider is for use by clients as part of a basic understanding of the identity of the managed system on which it is running (typically a server or appliance). The current implementation is for HP-UX only.

requirements

The provider requires HP WBEM Services for HP-UX.

comments

This provider makes a security check to ensure the CIMOM user has rights to access DNS information. If CIMOM authentication is enabled (which is the typical condition) the provider will verify if the user has access rights to the /etc/resolv.conf file. If CIMOM authentication is disabled, the /etc/resolv.conf file access rights must be set to allow read access for everyone, otherwise the provider will throw the CIM_ERR_ACCESS_DENIED exception.

release history

Initial release with HP WBEM Services for HP-UX, version 1.5.

supported managed resources

Managed systems running HP WBEM Services for HP-UX and DNS.

setting up this provider

installing this provider

The Domain Name System provider is contained within the DNS Provider Module (it is the only provider

using this provider
 schema supported by
 this provider

This provider supports the PG_DNSService class. Tables 1 and 2 describe the properties and methods supported by the provider.

table 1: PG_DNSService properties

table 1 describes the properties of the PG_DNSService class. It has three columns. The first is the property name (including type and units), the second is the property inheritance (indicating which class or superclass defines the property), and the third is the property's value and data source. Each row describes a property.

property name	property inheritance	property value (and data source)
string Caption	Inherited from CIM_ManagedElement	<u>HP-UX</u> : Returns the string " DNS Service".
string Description	Inherited from CIM_ManagedElement	<u>HP-UX</u> : Returns the string " Describes the Domain Name System (DNS) Service."
string SystemCreationClassName [Key]	Inherited from CIM_Service	<u>HP-UX</u> : Returns string "CIM_UnitaryComputerSystem".
string SystemName [Key]	Inherited from CIM_Service	<u>HP-UX</u> : Returns the fully qualified host name returned by the name service through the gethostbyname() system call. If a name service is not available, the provider supplies the hostname returned by the gethostname() system call.
string CreationClassName [Key]	Inherited from CIM_Service	<u>HP-UX</u> : Returns the string "PG_DNSService".
string Name [Key]	Inherited from CIM_ManagedSystemElement (and made one of the 4 keys of CIM_Service)	<u>HP-UX</u> : Returns the domain name from the /etc/resolv.conf file.
string SearchList[]	Local to PG_DNSService	<u>HP-UX</u> : Returns the value(s) from the "search" field(s) from the /etc/resolv.conf file.
string Addresses[]	Local to PG_DNSService	<u>HP-UX</u> : Returns the value(s) from the "nameserver" field(s) from the /etc/resolv.conf file.

table 2: intrinsic methods for PG_DNSService

Table 2 describes the intrinsic methods supported by this provider. It has three columns. The first is the method name, the second is a description of the provider's actions based on invoking that method, and the third is a list of any exceptions that could result from invoking the method. Each row describes a method. Note that this provider supports no extrinsic methods.

method name	description	exceptions thrown
enumerateInstances	Returns all instances of class with all properties and their respective values. There will always be only one instance.	CIM_ERR_NOT_SUPPORTED if wrong class (different than PG_DNSService). CIM_ERR_ACCESS_DENIED if the user does not have rights to access the DNS configuration. CIM_ERR_FAILED if the DNS configuration file does not exist.
enumerateInstanceNames	Returns object path of all instances of class. There will always be only one instance.	CIM_ERR_NOT_SUPPORTED if wrong class (different than PG_DNSService). CIM_ERR_ACCESS_DENIED if the user does not have rights to access the DNS configuration.

modifyInstance	Returns Not Supported.	CIM_ERR_NOT_SUPPORTED
deleteInstance	Returns Not Supported.	CIM_ERR_NOT_SUPPORTED
initialize	Not Supported.	None
terminate	Not Supported.	None
createInstance	Returns Not Supported.	CIM_ERR_NOT_SUPPORTED

- **Indications generated by this provider**
This provider does not currently generate any indications.
- **Associations provided by this provider**
This provider does not currently support any associations.

links to more information

- **Additional provider documentation**
There is currently no additional documentation for this provider beyond this information.
For DNS specific information on HP-UX systems, see the man pages for resolver or resolv.conf, or see the System Administrator Manager (SAM) help pages.
- **WBEM information**
For a CIM tutorial, go to <http://www.dmtf.org/education/cimtutorial.php>.
For information about HP WBEM Services for HP-UX, see software.hp.com and hp.com (the Network and Systems Management areas).
- **Managed Resource Documentation**
Information regarding HP-UX domain name systems can be found in network manuals and man pages. The resolver(4) man page reading is recommended.
- **Client Information**
None.
- **Support Contacts**
The HP-UX DNS Provider is supported as part of HP WBEM Services for HP-UX.

For additional information on HP products and services, visit us at www.hp.com

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