



hp WBEM solutions



hp technical
data sheet

hp-ux network information service CIM provider

provider overview

description

The Network Information Service provider makes available NIS information. The Network Information Service provider instruments the PG_NISServerService subclass of the CIM_Service class by adding the properties ServerType and ServerWaitFlag.

- ServerType specifies whether the instance is a master or slave server.
- ServerWaitFlag specifies the NIS server wait state (wait/no wait).

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 Network Information Service (NIS).

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 NIS information. If CIMOM authentication is enabled (which is the typical condition) the provider will verify if the user has access rights to the /etc/rc.config.d/namesvrs file. If CIMOM authentication is disabled, the /etc/rc.config.d/namesvrs 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 NIS.

setting up this provider

installing this provider

The NIS provider is contained within the NIS Provider Module (it is the only provider within that module). The NIS Provider Module is bundled with HP WBEM Services for HP-UX including:

using this provider
 schema supported by
 this provider

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

table 1: PG_NISServerService properties

table 1 describes the properties of the PG_NISServerService 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.

<i>property name</i>	<i>property inheritance</i>	<i>property value (and data source)</i>
string Caption	Inherited from CIM_ManagedElement	<u>HP-UX</u> : Returns the string "NIS Service".
string Description	Inherited from CIM_ManagedElement	<u>HP-UX</u> : Returns the string "This is the PG_NISServerService object.."
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_NISServerService".
string Name [Key]	Inherited from CIM_ManagedSystemElement (and made one of the 4 keys of CIM_Service)	<u>HP-UX</u> : Returns "NIS DOMAIN" field from the /etc/rc.config.d/namesvrs file.
uint16 ServerType	Local to PG_NISServerService	<u>HP-UX</u> : Returns what type of NIS Server the managed system is. If the system is not a NIS server, returns None. Possible values are: (0) "Unknown", (1) "Other", (2) "None", (3) "NIS Master", (4) "NIS Slave". "Other" means that the managed system is a NIS server, but isn't master nor slave. "Unknown" is set when an unrecognized configuration is found, like a server being master and slave at the same time.
uint16 ServerWaitFlag	Local to PG_NISServerService	<u>HP-UX</u> : Returns the NIS wait state. If your client attempts to boot, and no server for its domain is running on its local network segment, by default, the client may hang until a server comes up and answers the client's bind request. Possible values are: (0) "Unknown", (1) "Other", (2) "Wait", (3) "No Wait". "Wait" means the client will hang, while "No Wait" is the opposite. "Unknown" is set when the flag WAIT_FOR_NIS_SERVER is not configured. "Other" is not currently used, but is reserved for valid states different than "Wait" and "No Wait".

table 2: intrinsic methods for PG_NISServerService

	instance.	than PG_NISServerService).
		CIM_ERR_ACCESS_DENIED if the user does not have rights to access the NIS server configuration.
		CIM_ERR_FAILED if the NIS server configuration file (/etc/rc.config.d/namesvrs) does not exist.
getInstance	Supported.	CIM_ERR_NOT_SUPPORTED if wrong class (different than PG_NISServerService).
		CIM_ERR_INVALID_PARAMETER if wrong number of keys.
		CIM_ERR_NOT_FOUND(from CIMOM) if no instance.
		CIM_ERR_ACCESS_DENIED if the user does not have rights to access the NIS server configuration.
		CIM_ERR_FAILED if the NIS server configuration file (/etc/rc.config.d/namesvrs) does not exist.
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 NIS specific information on HP-UX systems, 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 network information services can be found in network manuals and man pages. The nis+(1) man page reading is recommended.
- **Client Information**
None.
- **Support Contacts**
The HP-UX NIS Provider is supported as part of HP WBEM Services for HP-UX.

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