The VMware CIM Browser Guide

VMware ESXi 6.0

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The VMware CIM Browser Guide

About This Book

The VMware CIM Browser Guide describes how to display inheritance, associations, instance, and property information about CIM providers.

Revision History

This guide is revised with each release of the product or when necessary. A revised version can contain minor or major changes. Table 1 summarizes the significant changes in each version of this guide.

	' y
Revision	Description
Document Version 1.0	<i>The VMware CIM Browser Guide</i> for VMware ESX 4.1/VMware ESXi 4.1. This is a new guide that documents the use of the VMware CIM Browser.
Document Version 2.0	The VMware CIM Browser Guide for VMware ESXi 5.0
Document Version 2.1	The VMware CIM Browser Guide for VMware ESXi 5.1
Document Version 2.5	The VMware CIM Browser Guide for VMware ESXi 5.5
Document Version 3.0	The VMware CIM Browser Guide for VMware ESXi 6.0

Table 1. Revision History

Intended Audience

This guide assumes that the reader has a working familiarity with the following:

- VMware ESXi 6.0 The conceptual underpinnings and actual functions of ESXi
- CIM providers

Document Feedback

VMware welcomes your suggestions for improving our documentation. Send your feedback to docfeedback@vmware.

Technical Support and Education Resources

The following sections describe the technical support resources available to you. You are also encouraged to contact your partner representative for any questions about VMware CIM Browser.

Self-Service Support

You can use the information here to find information about VMware products and documentation as well as the Common Information Model (CIM).

VMware Information

Use the VMware Technology Network (VMTN) for self-help tools and technical information:

- Product information http://www.vmware.com/products/
- Documentation http://www.vmware.com/support/pubs
- Knowledge Base http://kb.vmware.com
- Discussion forums http://www.vmware.com/community
- User groups http://www.vmware.com/vcommunity/usergroups.html

For more information about the VMware Technology Network, go to http://www.vmtn.net.

Information About CIM

For profiles, tutorials, and other information about CIM, refer to http://www.dmtf.org/.

Online and Telephone Support

To use online support to submit technical support requests, view your product and contract information, and register your products, go to http://www.vmware.com/support.

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Support Offerings

Find out how VMware support offerings can help meet your business needs. Go to http://www.vmware.com/support/services.

Querying CIM Providers with the VMware CIM Browser

The VMware CIM Browser enables you to query CIM providers loaded on a target VMware ESXi host. You can browse the CIM inheritance hierarchy or list the CIM associations and instances.

Installation

To use the CIM Browser to query providers, you must install the CIM Tools plug-in into the VMware Workbench. For more information, see the *VMware Workbench Getting Started Guide*. Once you have installed the VMware CIM Browser, the VMware menu appears in the menu bar. This includes a selection for the VMware CIM Browser.



		Resource - VMware Workbench
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ि Project Explorer 🛛	- 8	
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Displaying the CIM Browser

You can view classes, associations, or instances in the VMware CIM Browser in one of the following ways:

- Display the CIM class inheritance hierarchy by selecting CIM Inheritance from VMware >> CIM Browser. The CIM Inheritance view appears in VMware Workbench.
- Display associations by selecting CIM Associations (Schema) from VMware >> CIM Browser. A CIM Associations (Schema) view appears in VMware Workbench.
- Display association instances by selecting CIM Associations (Instances) from VMware >> CIM Browser. A CIM Associations (Instances) view appears in Workbench.
- Query WBEM operations for a specific class by selecting WBEM Operation from VMware >> CIM Browser.

Figure 2. CIM Inheritance view with Host/Namespace/Class(es) Definitions



When you display the CIM Inheritance view, the view will be blank, unless one or more host/namespace/class(es) targets have been defined during the current session of VMware Workbench (Figure 2).

- For CIM Inheritance browsing, you must define a host/namespace targets for browsing. Specifying class(es) is optional. If you do not specify classes, the VMware CIM Browser displays all the classes for the specified host/namespace.
- For CIM Associations, you must define a host, namespace, and one or more classes.

Adding a Host/Namespace/Class Target

1 In the icon bar next to the view tabs, click the Add New Host icon (\square).

This displays the Add Host wizard (Figure 3).

Figure 3. Add New Host

	Workbench CIM Browser 🗶
Add Host Select a Host to ad	k a
CIM Host	Add Target
CIM Namespace	root/cimv2
Protocol	https
Port	5989
? < <u>B</u> ac	k Next > Cancel Einish

2 Select the CIM Host you want to browse from the drop-down menu.

If you cannot find the host in the menu, click Add Target... to add the host to which you want to connect. For information about adding an ESXi server, see the *VMware Workbench Getting Started Guide*.

- 3 Type the CIM Namespace you want to browse or select the namespace from the drop-down list.
- 4 Select the protocol and port.
- 5 Do one of the following:
 - Click Finish to display all the CIM classes in the host/namespace. This is enabled for CIM Inheritance browsing only.
 - Click Next to browse specific classes.

This displays the Add CIM Class(es) wizard.

- For CIM Inheritance, you can select all CIM classes, no classes (in this case you are simply adding a host), or enter one or more specific classes. Figure 4 shows the wizard for CIM Inheritance.
- For CIM Associations, you must enter one or more classes. Figure 5 shows the wizard for CIM Associations.

Figure 4. Selecting Specific Classes - CIM Inheritance

N 🔁	orkbench CIM Browser	×
Add CIM Class(es)		
Select CIM Classes in CIM Brow	vser	
O Browse all CIM classes		
◯ Browse no CIM Class (add	a CIM Host only)	
Browse selected CIM Class		
O Browser CIM Classes from	MOF file(s)	
CIM Class name		Add
		Delete
? < <u>B</u> ack	Next > Ca	ancel Einish

	Workbench CIM Browser	×
Add CIM Clas	ss(es) Classes in CIM Browser	
CIM Class r	name	Add
		Delete
(?)	< Back Next > Cancel	Einish

Figure 5. Selecting Specific Classes - Associations

Once you click Finish, the view displays the selected classes. If you selected specific classes to browse in the CIM Inheritance hierarchy, those classes are highlighted (Figure 6).

Figure 6. Browsing CIM Inheritance for a Specific Class

🔣 VMware Workbench 指 CIM Inheritance 🛛	ľ	ľ	Ĉ	Ū,	} ●[¢₿	N	Ŧ	E	Ş	R	~	- 5
🕨 🛱 TROLLOPE (root/cimv2)													
▼ 🛱 TROLLOPE (acme/cimv2)													
▽ ⓒ CIM_ManagedSystemElement													
	t												
▷ ⓒ CIM_Controller													
✓ ⓒ CIM_Sensor													
C ACME_Sensor													

If you are browsing the associations for a specific class, that class is highlighted and its associations are displayed (Figure 7).



🗄 Outline	Make Targets	ые сім	Associations	s (Schema)	×	∎ †	ľ	Ċ	₽₿	A	Ş	~	
🗢 🗗 TRO	OLLOPE (acme/ci	mv2)											
	ACME_Sensor												
Þ	ACME_AssocS	ensor											

Enumerating the Instances of a Class

NOTE You can also enumarate class instances with the WBEM Operation view. See "Querying WBEM Operations for a Specific Class" on page 17.

Classes are designated in the VMware CIM Browser with $^{\textcircled{C}}$.

- 1 Display the CIM Browser, as described in "Displaying the CIM Browser" on page 7).
- 2 Enumerate the instances in one of the following ways:
 - Double-click the class
 - Select the class and click the Get Instances icon (④).

The instances, methods, properties, and qualifiers are displayed below the hierachy (Figure 8).

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▽ ⓒ CIM_ManagedElement												
▽ ⓒ CIM_ManagedSyste	mElement	t										
▽ © CIM_LogicalElem	nent											
⊽ © CIM_Enabled	ogicalEle	ment										
▽ © CIM_Logic	alDevice											
▷ © CIM_Co	ontroller											
⊽ © CIM_Se	ensor											
C ACN	IE_Sensor											-
	-											
CIM Instance Property	Туре	Va	lue			_						
✓ d Instances												
ACME_Sensor, Devicel												\square
G ACME_Sensor, DeviceI												
ACME_Sensor, Devicel	C											-

Figure 8. Getting Instance Information on Classes

Enumerating the Instances of an Association

Associations are designated in the VMware CIM Browser with ^(A). You can enumerate association instances using one of several methods.

CIM Associations (Instance): the Easiest Method

This is the easiest way to enumerate the instances of an association.

1 Select CIM Associations (Instances) from VMware >> CIM Browser, as described in "Displaying the CIM Browser" on page 7.

The CIM Associations (Instances) view displays the instances (a).

- 2 Double-click on an association instance to display its properties.
- 3 Expand the Antecedent or Dependent property to see the associated classes (Figure 9).

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▶ @	ACME_Se	nsor, Devic	elD=42.7	7.29.68										
•														Þ
CIM Instan	ce Property		Туре	Value										
🔻 👰 Prope	erties													
Þ 🖻 Ar	ntecedent		null ref	/acme	cimv2:A	CN	1E_0	Devio	ce.De	evice	ID="1	0.9.3	2.1"	
Þ 🖲 De	ependent		null ref	/acme	/cimv2:A	CN	1E_9	Sens	or.De	evice	ID="1	0.9.:	2.1"	

Figure 9. Instances of an Association in CIM Associations (Instances) View

CIM Associations (Schema): Clicking the Add in Associations (Instance) Icon

1 Select CIM Associations (Schema) from VMware >> CIM Browser, as described in "Displaying the CIM Browser" on page 7.

The CIM Associations (Schema) view displays the class you selected with its association.

Figure 10.	CIM Associations	(Schema) View
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▼ 🛱 TROLLOPE (acme/cimv2)										
▼ C ACME_Sensor										
ACME_AssocSensor										

- 2 Click the Add in Associations (Instance) icon (♣).
- 3 Double-click an association instance to display its properties (Figure 9).
- 4 Expand the Antecedent or Dependent property to see the associated classes.

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			[*	C C	100	ß		S I	▽
▼ 🛱 TROLLOPE (acme/cimv2))								
▽ @ ACME_Sensor,Devic	elD=10.9	.2.1							
▽ 🕐 References									
ACME_Assocs	Sensor,An	tecedent=/acm	e/cim	1v2:AC	ME_D	evice	e. Devi	celD="	10.9.
♦ @ ACME_Sensor, Device	elD=15.3	.0.2							
◊	elD=42.7	.29.68							
(I)									Þ
CIM Instance Property	Туре	Value							
▼									
P Antecedent	null ref	/acme/cimv2	ACM	IE_Dev	/ice.D	evice	ID="1	0.9.2.1	'
P Dependent	null ref	/acme/cimv2	ACM	1E_Ser	isor.D	evice	ID="1	0.9.2.1	'

Figure 11. Instances of an Association in CIM Associations (Instances) View

CIM Associations (Schema): Double-clicking the Association

1 Select CIM Associations (Schema) from VMware >> CIM Browser, as described in "Displaying the CIM Browser" on page 7.

The CIM Associations (Schema) view displays the class you selected with its association.

- 2 Double-click the association to display its instances (a)), methods, properties, and qualifiers.
- 3 Expand an instance to display its Antecedent and Dependent properties.
- 4 Expand either one of these to see the associated classes and their properties.

	C/C++ - VMware Workbench
<u>F</u> ile	<u>E</u> dit <u>S</u> ource Refac <u>t</u> or <u>N</u> avigate Se <u>a</u> rch <u>R</u> un <u>P</u> roject <u>V</u> Mware <u>W</u> indow <u>H</u> elp
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Ē	EC/C++
-	🗜 CIM Associations (Schema) 🛛 📑 📑 💣 🕫 🛷 🖻 🖉 💆 🔽 🗖 🗖
6	▼ P TROLLOPE (acme/cimv2)
æ	▼ ⓒ ACME_Sensor
\bigcirc	▶ 🔕 ACME_Ass∞Sensor
	CIM Instance Property Type Value
	✓
	✓
	✓ Properties
	P Antecedent null ref /acme/cimv2:ACME_Device.DeviceID="10.9.2.1"
	Pependent null ref /acme/cimv2:ACME_Sensor.DeviceID="10.9.2.1"
	▷
	▷
	Methods
	▷ Properties
] □≎	

Figure 12. Instances of an Association

CIM Inheritance: Clicking the Add in Associations (Instance) Icon

- 1 Select CIM Inheritance from VMware >> CIM Browser as described in "Displaying the CIM Browser" on page 7.
- 2 Select the class whose association instances you want to enumerate.
- 3 Click the Add in Associations (Instance) icon (↔€).

This displays the Add in Associations (Instance) view.

- 4 Double-click on an association instance (a) to display its properties.
- 5 Expand the Antecedent or Dependent property to see the associated classes (Figure 9).

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▼ 🛱 TROLLOPE (acme/cimv2))										
▽ © ACME_Sensor											
▽ @ ACME_Sensor,Devic	elD=10.9	.2.1									
▽ 🕐 References											
ACME_Assoc	Sensor,An	tecedent=/acm	e/cin	nv2:	ACN	IE_D	evice	.Devi	icelD	="10). 9.
Image: ACME_Sensor, DeviceID=15.3.0.2											
ACME_Sensor, DeviceID=42.7.29.68											
(III											Þ
CIM Instance Property	Туре	Value									
▼											
P Antecedent	null ref	/acme/cimv2	ACN	ME_I	Devi	ce.De	evice	ID="1	0.9.2	2.1"	
P Dependent	null ref	/acme/cimv2	ACN	ME_	Sens	or.De	evice	ID="1	0.9.2	2.1"	

Figure 13. Instances of an Association in CIMAssociations (Instances) View

CIM Inheritance: Clicking the Add in Associations (Schema) Icon

- 1 Select CIM Inheritance from VMware >> CIM Browser as described in "Displaying the CIM Browser" on page 7.
- 2 Select the class whose association instances you want to enumerate.
- 3 Click the Add in Associations (Schema) icon (

This displays the class and its association in the CIM Associations (Schema) view.

4 Double-click the association.

This displays the instances, properties, and qualifiers below the association.

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	CIM Instance Property Type Value	P
	V 🎒 Instances	
	✓ al ACME_Ass∞Sensor,Ar	
	✓	
	P Antecedent null ref /acme/cimv2:ACME_Device.DeviceID="10.9.2.1"	
	P Dependent null ref /acme/cimv2:ACME_Sensor.DeviceID="10.9.2.1"	
	▷	
	▷	
	m Methods —	
	▶ Properties	
] ∎≎		

Figure 14. Instances of an Association

Querying WBEM Operations for a Specific Class

1 Select WBEM Operation from VMware >> CIM Browser.

This displays the WBEM Operation view.

2 Select the host.

You can either select the CIM host from the drop-down list or click Add CIM Host to add a host/workspace.

NOTE If you select the CIM host from the list, you should click the Refresh icon (()) to make sure the host/namespace has the latest CIM classes. If any classes were added to the host/namespace since the host was added to the view, they will not be included in the WBEM Operation view until you click this icon.

3 Select a CIM class.

You can either type the name in the text box, or click Search to open a CIM class name search wizard. The search wizard (Figure 15) contains all CIM classes in the selected CIM host/workspace.

Figure 15. Search Wiza	rd	
	Search a CIM Class	×
Search a CIM Class Select a CIM class		
CIM Class CIM_Cap		
CIM_BIOSElement	Mee	
CIM_Battery		
CIM_Capabilities		
CIM_Card		
CIM_Chassis		
CIM_Chip		
CIM_Collection		
?	Can	cel <u>F</u> inish

4 Select the WBEM operation from the drop-down list.

The following operations are available:

- Enumerate CIM class names
- Enumerate CIM classes
- Enumerate CIM instances
- Enumerate CIM instance names
- Get CIM Class
- 5 Check the desired boxes to indicate the extent of the query.
 - Deep the result contains the specified class and all subclasses.
 - Local Only only elements defined in or overridden in the class are included in the result.
 - Include Qualifiers All qualifiers for each class and its elements are present in the result.
 - Include Class Origin The class origin attribute is the name of the class that first defined the property or method. If checked, the class Origin attribute will be present for each property and method on all returned CIM Classes.
- 6 Click Execute to query the selected WBEM operation for the selected class.

The operation will be executed. The results will be shown in a tree view (Figure 16).

-	•			
👯 WBEM Operatio	2 n			- -
CIM Host	TROLLOPE (root/cimv2)	•	<u>A</u> dd a	CIM Host
CIM Class	CIM_Capabilities			<u>S</u> earch
WBEM Operation	enumerateClasses			\$
	🗹 Deep 🗌 Local Only 🗹 Include Qualifie	ers 🗆 Ir	nclude Class	s Origin
				Execute
Information		Туре	Value	<u>^</u>
▷ ⓒ CIM_Enat	bledLogicalElementCapabilities			
▷ ⓒ OMC_Ipm	niEnabledLogCapabilities			
▷ ⓒ OMC_Dev	viceCapabilities			
▷ ⓒ CIM_Pow	erManagementCapabilities			-
4	III			

Figure 16. WBEM Operation View

Searching for Classes in a Browser View

In any of the views, you can click the Search icon ($\sqrt{2}$) to search for any class displayed in the view.

NOTE To make sure the host/namespace in the view includes an up-to-date class list, select the host/namespace in the view and click the Refresh icon ($^{\circ}_{\circ}$).

- 1 Click the Search icon ($\cancel{2}$) to display the Search screen.
- 2 Enter the CIM class name you want to find.

You can either type the name or select a name from the list (Figure 17).

3 Click Finish.

Figure 17.	Searching	for a	Class
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	Search a CIM Class	×
Search a CIM Class		
Select a CIM class		
CIM Class CIM_Capabilities		
On Autonzaionocriec		
CIM_BIOSElement		
CIM_Battery		
CIM_Capabilities		
CIM_Card		
CIM_Chassis		
CIM_Chip		
CIM_Collection		
		-
?	Cancel <u>F</u> ini	sh

The class will be found only if the host/namespace includes the class and the class is included in the browser view. If the class is not included in the browser view, you can add it by clicking the Add CIM Class icon (C). For more information about adding CIM classes to a view, see "Adding a Class to a CIM Associations Browser View" on page 21.

Figure 18 shows a successful search for ACME_Device.

Figure 18. Searching for ACME_Device in the CIM Associations (Instance)



Figure 19 shows a browser view that contains only ACME_Sensor. A search for any other class will yield no results.

Figure 19. Searching for ACME_Device in a View that Does Not Include ACME_Device



Adding a Class to a CIM Associations Browser View

When you add a host/namespace to the CIM Associations (Schema) and CIM Associations (Instance) browser views, you must specify one or more classes belonging to the host/namespace to display in the view. If you search for classes ("Searching for Classes in a Browser View" on page 19), the search will only encompass those classes in the view. After you add the host/namespace, you can add additional classes to the browser view by clicking the Add CIM Class icon (c).

NOTE To make sure the host/namespace includes an up-to-date class list, select the host/namespace in the view and click the Refresh icon ($^{\circ}$).

- 1 Select the host/namespace.
- 2 Click the Add CIM Class icon (c).

This displays the Add Cim Class(es) window (Figure 20).

- 3 Type the CIM class in the CIM Class Name field.
- 4 Click Finish.

Figure 20. Add	d CIM Classes	
	Workbench CIM Browser	×
	dd CIM Class(es) Select CIM Classes in CIM Browser CIM Class name Add Delete	
CIM Class na	ame	Add
		Delete
(?)	< Back Next > Cancel	Einish

Refreshing the Host/Namespace

After you have added the host/namespace to the view, any classes, associations, etc., loaded into the host/namespace will not be included in the view. Click the Refresh icon (�) to refresh the host/namespace to pick up the new classes.

Appendix: CIM Browser Icons

When you display the VMware CIM Browser, you will see one or more of the icons described in Table A-1.

Table /	4-1.	CIM	Browser	Icons

lcon	Description
e Ès	CIM Inheritance view
¢₿	CIM Associations (Instances) view. Select a class in either the CIM Inheritance view or the CIM Associations (Schema) view and click this icon to display any CIM associations instances for the selected class (Figure 9).
	CIM Associations (Schema) view. Select a class in either the CIM Inheritance view or the CIM Associations (Instances) view and click this icon to display the CIM Associations for the selected class (Figure 10).
KQ.	WBEM Operation view
E*	Add a Host. See "Adding a Host/Namespace/Class Target" on page 8.
ľ	Remove a host.
Ĉ	Add a Class. Selecting a host enables this button. Clicking this button enables you to add a class to the current view. See "Adding a Class to a CIM Associations Browser View" on page 21.
A	Search. See "Searching for Classes in a Browser View" on page 19.
C	Class
A	Association class.
	Indication class
Ū,	Get Instances. Select a class in a view and click this icon to display the instances of the class.
ci	Class instance
	Reference instance of a CIM Class

lcon	Description
ai	Association instance
P	Property of a CIM class
P	Key property of a CIM class
m	Methods
9	Qualifier of a CIM class
•	Parameter of a CIM class method
B	Clear classes for selected host/namespace. You can add classes using the Add a Class icon (🔊).
•	Error
Δ	Warning

Table A-1. CIM Browser Icons

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