

Common Information Model (CIM) Package

The Common Information Model (CIM) package is a comprehensive set of tools and resources that helps server vendors, storage hardware vendors, and independent hardware vendors (IHVs) develop and certify a CIM provider running on an ESXi host.

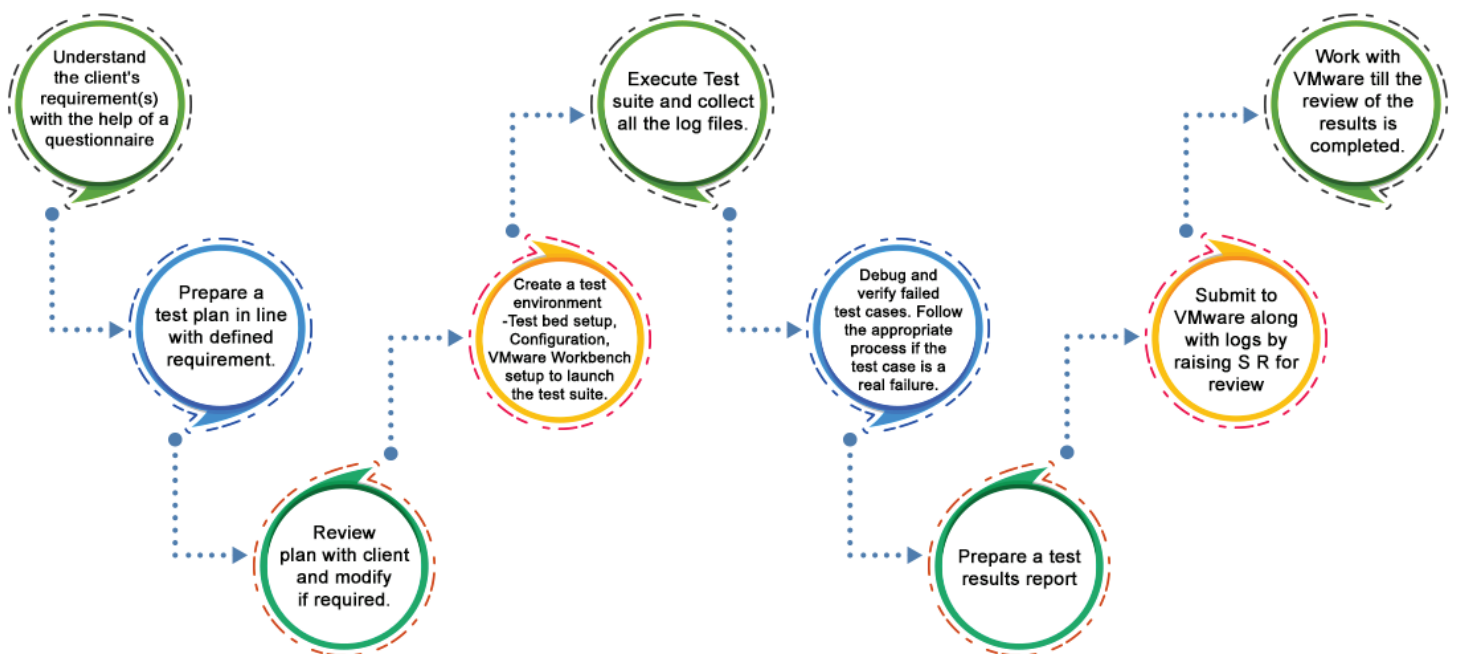
CIM providers allow management functions such as reporting health monitoring information or updating driver firmware.

Nexii Labs offers CIM providers, testing and validation services for conformance with VMware Ready logo.

CIM testing process

The partner must submit information about their company and solutions using the IOVP questionnaire for VMware approval before starting the actual testing.

Standard Process followed



Test scenarios

Test suite execution covers multiple test scenarios including validating system resources by CIM enumeration, monitoring system health data, and performing upgrade operations on installed software.

01. Getting manufacturer, model and serial number of physical server via CIM
02. Getting BIOS version via CIM
03. Getting all the vSphere Installation Bundles (VIBs) that are installed on the managed server using CIM client
04. Installing VIBs using CIM client applications
05. Monitoring VIBs installation status

06. Monitoring state of all sensors
07. Reporting Fan Redundancy
08. Reporting CPU Cores and Threads
09. Reporting Empty memory slots
10. Reporting the PCI Device Hierarchy By Using Parent DeviceIDs
11. Reporting the Path to a PCI Device By Using PortGroups
12. Monitoring RAID Controller State
13. Reporting Accessible Storage Extents
14. Working with the System Event Log
15. Connections from Client to CIM Server
 - a. Using SLP
 - b. Using a Web Browser
 - c. Using CLI interface
16. Verifying User Authentication Credentials

Program Testing Timelines

Over all CIM provider certification program testing will take approx **4 weeks**, assuming all the required software, licenses and hardware are available and no issues are observed during the testing. In the event there are issue(s), issue(s) fixing time and re-verification time of related tests will get added.

Deliverables

As part of this program, will share the following:

1. Test plan document
2. Test results along with logs
3. Test results review report sent by VMware