

### QuickSpecs

## Introduction

HP gWLM is a component of the HP Matrix Operating Environment for HP-UX (formerly known as Insight Dynamics - VSE) an infrastructure management suite of software for HP Integrity servers, enabling instantaneous adjustment to dynamic business demands. HP Matrix OE provides an automated virtual infrastructure management capability that can adapt in seconds with mission-critical reliability. It provisions infrastructure in minutes with automated activation of servers, storage and networking resources, optimizes infrastructure confidently with built-in capacity planning and rebalances system resource tools including workload management. Matrix OE for HP-UX v7.1 is the latest version available in support of HP-UX 11i v3 March 2012 release.

HP Global Workload Manager (gWLM) is a multi-system, multi-OS workload manager providing an intelligent policy engine within Matrix OE for HP-UX. gWLM integrates with single operating system resource management mechanisms at the whole processor and sub-CPU allocation level. It supports and utilizes virtual partitioning techniques to dynamically reallocate resources to applications based on application performance or business policy. It delivers improved server utilization while maintaining and monitoring service levels across many servers.

HP gWLM has been designed for data center environments where a central IT organization is acting as a service provider. HP gWLM allows standard resource allocation policies to be quickly and easily deployed across a consolidated, virtualized data center.

## What's new

Update for gWLM version 7.1, including

- **Feature:** Support for the new HP-UX vPars v6.x virtual partition functionality
  - **Benefit:** Take advantage of the broader platform support, improved performance and productivity benefits extended by vPars V6 functionality

## Features and Benefits

- Improving CPU utilization
  - Dynamic, policy-based CPU allocation for
  - Manage vPars, nPars with iCAP, Processor Sets (pSets), and Fair Share Scheduler (FSS: sub-CPU) groups on HP-UX (HP-UX 11i v2 & HP-UX 11i v3 for HP Integrity and HP 9000 servers)
  - Manage nPars, pSets and Class Scheduler (sub-CPU) groups on OpenVMS Integrity NOTE: HP gWLM version 4.1 supports OpenVMS Integrity 8.31H1 and above. gWLM version 4.1 supports OpenVMS HP VM guests on OpenVMS Integrity 8.4
- Ease of management for large numbers of systems
  - Central management server (CMS)
    - Web-based GUI integrated with HP Systems Insight Manager
    - Central monitoring and reporting
      - Real time and historical utilization, demand, & resource allocation
    - Central policy management
  - Discovery of virtual partitions and resource partitions
  - Out of box support for common, easy to understand configurations
    - Own/borrow policy
    - Fixed entitlement policy
    - CPU utilization policy
    - Single policy can be applied to multiple resource partitions
    - Most sites only need several variations of factory supplied policies

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- Custom policy available for flexible goal-based resource management
  - Role-based access
    - System administrators have full access
    - Read-only access for viewing reports
- Building trust in dynamic capabilities
  - Ensure tool is configured as planned and will behave as expected
    - Advisory mode
    - Real-time Reporting
    - Historical reports
  - Application owners can see results
    - CPU resources can be guaranteed
      - Fixed Policy
      - Own/Borrow (PolicyMin, owned)
      - Utilization (PolicyMin)
    - Audit reports
      - To prove each workload got what was guaranteed
      - Show when workloads got more resources than the guaranteed minimum

### Hardware Requirements

- gWLM is supported on HP 9000 Servers and HP Integrity Servers

### Software Requirements

- gWLM is supported on HP-UX 11i Version 2 and HP-UX 11i Version 3
  - gWLM is supported on OpenVMS Integrity 8.3-1H1 and above
- NOTE:** HP gWLM version 4.1 supports OpenVMS Integrity 8.31H1 and above. gWLM version 4.1 supports OpenVMS HP VM guests on OpenVMS Integrity 8.4

### Configuration Information

gWLM is a component of the HP Matrix Operating Environment for HP-UX (PN T8671BC). HP Matrix Operating Environment for HP-UX is also available as part of VSE-OE or DC-OE. Please see HP-UX 11i V3 QuickSpecs for more information on VSE-OE and DC-OE - [http://h18006.www1.hp.com/products/quickspecs/12079\\_na/12079\\_na.pdf](http://h18006.www1.hp.com/products/quickspecs/12079_na/12079_na.pdf)

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