Platform™

Platform Open Cluster Stack (OCS)

Platform Open Cluster Stack is a pre-integrated, vendor certified, software stack that enables the consistent delivery of scale-out application clusters.

Highlights

- Pre-engineered and tested on select hardware for optimal simplicity and performance
- Modular and hybrid stack that transparently integrates open source and commercial software into a single consistent cluster operating environment
- The first commercial software system used to create certified Intel® Cluster Ready systems
- Rapidly accelerates a broader set of hardware support tested and delivered to Intel cluster level specification
- Simplifies the complex delivery of Linux® clusters to customers by providing a comprehensive product and support solution
- Optional 24x7 global enterprise support
- A standard solution that reduces overall cost and maintenance assuring scalability and stability as the cluster grows

Reduce complexity, cost and business risk

Up until recently, organizations were left to cobble together their own Linux cluster deployment and management solutions. Linux and the open source software movement have accelerated the unbundling of cluster building blocks, which include industry standard hardware, operating systems, cluster systems and workload management. The openness and flexibility of an unbundled software solution stack affords choice but eliminates single source vendor responsibility. As a result, it has been expensive and risky for users to deploy and manage Linux clusters using open source components.

intel Cluster Ready

Our Solution

Platform Open Cluster Stack (OCS) is a pre-integrated, vendor certified, software stack that enables the consistent delivery of scale-out application clusters. Platform OCS is the first commercial software system used to create certified Intel® Cluster Ready systems enabling a new class of users by simplifying Linux® cluster application, deployment and management. Backed by available, global 24x7 enterprise support, Platform OCS is a modular and hybrid stack that transparently integrates open source and commercial software into a single consistent cluster operating environment.

By democratizing Supercomputing using Linux Clusters, Platform OCS enables all organizations to reap financial and competitive benefits such as reduced costs, faster time to market and business survival.

Product Highlights

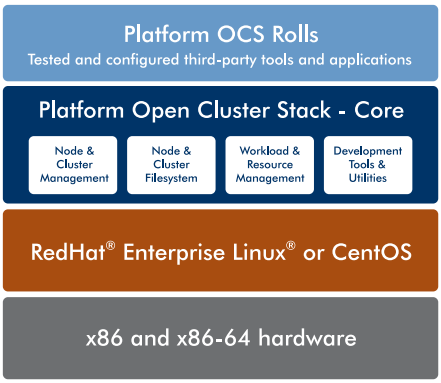
Open standards-based solution – Platform OCS is designed to enhance Linux cluster environments. Modular and interchangeable, Platform OCS easily scales to meet business demands and offers customers choice to choose the best tools required for their business.

Platform OCS complies to the Intel® Cluster Ready Specification, and together with other hardware and software components, forms a reference implementation for Linux cluster application, deployment and management delivering a complete Intel Cluster Certified solution.

Fully integrated, vendor certified cluster software stack – Platform OCS provides all the tools required to use, manage and operate a cluster. Reduce the time spent pre-configuring and testing the cluster prior to deployment. Management of the cluster is simplified allowing it to run better and faster providing the results sooner.

Reduced Total Cost of Ownership – Backed by Platform and its partner ecosystem, Platform OCS provides stability and scalability in a standard solution that reduces overall cost and maintenance as the cluster grows.

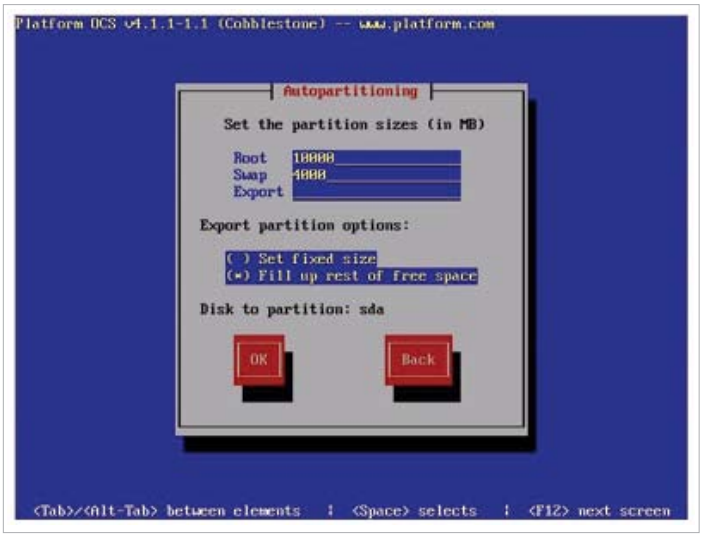
Platform OCS provides a standard framework and a best of breed set of tools including:



Features	Advantages	Benefits
Pre-engineered and tested on select hardware	• Validated for optimal simplicity and performance • Single point of contact for a bundled solution	• Reduces time spent pre-configuring and testing the cluster • Simplifies the process of getting the cluster up and running
Comprehensive automated management and diagnostic tools to assist with configuring and deploying	• Simplifies deploying applications on a cluster • Configures the cluster to required needs • View cluster in its entirety for easy monitoring and flagging potential issues • Predictable cluster performance	• Eliminates human interaction and error leading to lower total cost of ownership • Reduces downtime and ensures maximum system performance • Intel® Cluster Checker facilitates fault isolation, helping to improve early detection of cluster problems and reduce support costs
Tested and configured third party tools and applications	• Extend the capability of the cluster by choosing the tools required	• Reduces time spent deploying third party tools and applications • Guarantees that applications/tools will work with a Platform OCS cluster • Can be installed anytime, even after cluster deployment • Reduces time spent deploying third party tools and app
The first commercial software system used to create certified Intel® Cluster Ready systems	• Designed to enhance Linux cluster environments • Ability to easily scale to meet business demands • Modular and interchangeable • Open and standards based	• Delivers an Intel certified reference implementation that greatly reduces overall cost and maintenance assuring scalability and stability as the cluster grows • Time to market advantage for hardware vendors • Peace of mind for end-users using off-the-shelf High Performance Computing (HPC) software applications • Rapidly accelerates a broader set of hardware support tested and delivered to Intel cluster level specification for ISVs • Simplifies Linux cluster application, deployment and management by providing pre-configured, compatible clusters
Optional Global 24x7 enterprise support	• Same support offered with a commercial-grade application	• Latest functionality, maximum uptime and development predictability expected from commercial software offerings
Fast and effective workload management based on Platform LSF	• Commercial grade job execution, management and accounting in a simple to use package included with Platform OCS	• Increases processing efficiency to get jobs done faster • Automatic allocation to the right resources • Always on availability with reliable robust failover • Platform LSF and Platform LSF HPC for a clear migration from cluster workload management to enterprise workload management

PLATFORM OCS BOOT SCREEN

PLATFORM OCS DISK AUTOPARTIONING SCREEN



Supported Intel® Cluster Ready Systems

- Systems built with Intel® S5000PAL, S3000PT and S3000AH boards
- Dell™ PowerEdge™ 1950, 1955
- TyanPSC™ T-630DX

Additional Platform OCS Supported Systems

- Dell™ PowerEdge™ 6950, 2950, 2900, 2970, and 1435SC
- HP Proliant® DL140, DL380

Supported Hardware Architectures

- Intel® EM64T
- AMD® AMD64

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This product includes software developed by the Rocks Cluster Group at the San Diego Supercomputer Center at the University of California, San Diego and its contributors.

This product, on its own, does not constitute an Intel® Cluster Ready system, nor does combining it with another product ensure that the complete system is Intel® Cluster Ready, unless the complete system is specifically certified as an Intel® Cluster Ready system.