

Platform ISF

Solution Overview
Enabling Enterprise IaaS and PaaS



Have you experienced any of these issues?

- Inflexible physical and virtual silos
- Low utilization
- Matching applications resource requirements to be manual and slow

What is Platform ISF?

Platform ISF creates a shared computing infrastructure from heterogeneous virtual and physical resources to deliver application environments (both IaaS and PaaS) according to workload-smart and resource-aware policies.

Why Share Infrastructure With Platform ISF

- Eliminate over-provisioning of infrastructure to meet peak demand, resulting in lower capital and operating expenses, and higher utilization.
- Place workloads on the right systems to meet application requirements and service levels in a timely and cost-effective manner.
- Expand automatically application capacity on-demand without capital outlay, by harvesting under-utilized servers and desktops, or by centrally-controlled bursting to external infrastructure services.



Figure 1 – Platform ISF in the Datacenter

Platform ISF Use Cases

Improve Dev/Test Productivity and Infrastructure Utilization

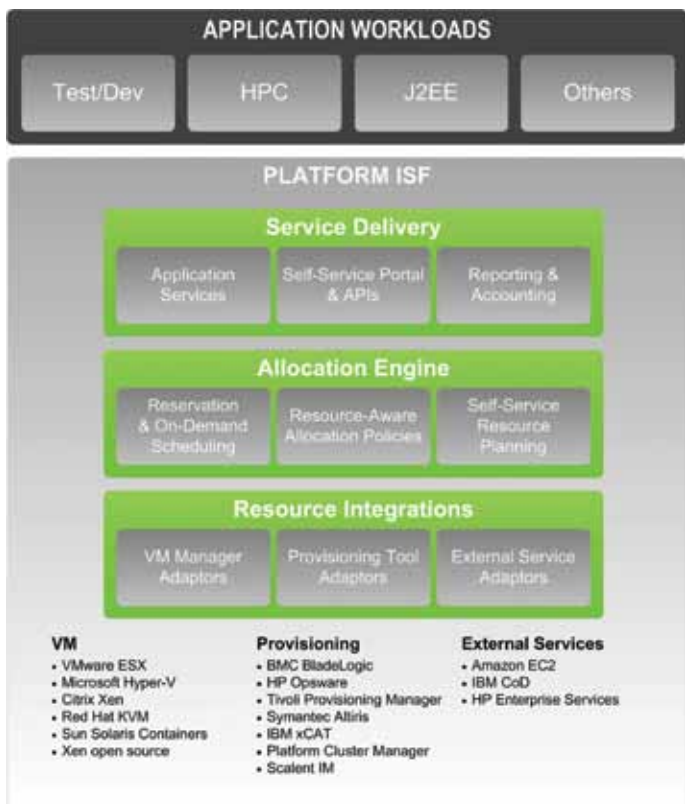
In a Dev/Test environment, a centralized infrastructure team may support multiple business units and fulfill numerous virtual or physical machine requests. IT infrastructure managers are challenged with slow time-to-delivery, and with costly and time-consuming server re-purposing steps that leave much of the low-value configuration work in the hands of developers and testers. What's more, matching the needs of the developers with available resources is a manual process that results in very low utilization of the lab infrastructure.

With Platform ISF, IT infrastructure managers are able to allocate virtual and physical servers across Dev/Test environments by creating infrastructure and platform offerings from a shared pool of available resources. A self-service portal enables developers and testers to make requests for resources on-demand or through a reservation system.

Platform ISF's automated policy-driven allocation of complete, multi-component application environments ensures that business priorities and demands are met while enabling optimum utilization of resources.

Dev/Test teams can now obtain application environments in under 15 minutes instead of weeks or months. Capacity waste and underutilization resulting from silo environments are minimized. Developers are now able to obtain error-free fully configured PaaS environments that adhere to standards and compliance policies, and eliminate manual setup and repurposing tasks. The pay-per-use model lowers capital and operational expenses by deferring new infrastructure spending, and by enabling demand-based scaling.

Figure 2 – Support for a diverse workload



Turn Production Computing Infrastructure Into Dynamic, Service-driven Environments

Production computing infrastructure — for application components such as middleware (J2EE, Apache), business analytics, enterprise batch and HPC — is often deployed in silos with no agility and rampant over-provisioning. This results in high capital budgets that are no longer acceptable to the business. IT infrastructure managers have been challenged to make better use of these silo resources while still meeting the current and future service levels required by application teams that have diverse environments, variable and unpredictable workloads, and conflicting business priorities.

Platform ISF's automated workload-smart and resource-aware allocation policies balance the supply and demand of resources according to business requirements. IT infrastructure managers can define policies to flex automatically available capacity up or down depending on workload requirements.

Each application's particular needs are addressed through allocation policies that understand:

- Special resource needs such as storage, server model and network topology
- Specific high-availability and redundancy needs

Organizations dramatically reduce capital and operational expenses because more applications can be run without the cost of adding new resources. These cost reductions can be achieved by leveraging complementary application usage patterns to increase and optimize overall resource utilization. Service levels are also improved since resources can be dynamically added to higher-priority applications when needed.

Highlights of Platform ISF

Automated, self-service delivery of infrastructure

- Enables the delivery of Infrastructure-as-a-Service (IaaS) and Platform-as-a-Service (PaaS) through an on-demand, portal- and API-driven access to multi-component application services, tracked and billed according to use

Accelerate your PaaS to the cloud

- Using the new visual, drag-and-drop Cloud Application Designer, quickly define multi-component cloud applications to deploy IaaS and PaaS

Workload-smart and resource-aware allocation

- Guaranteed resource reservations, coupled with optimum allocation policies, result in increased utilization to ensure the right resources are allocated to the right application at the right time

Heterogeneous resource integration

- Satisfy the diverse computing infrastructure requirements across virtual and physical environments, and support multiple VM managers and operating systems, from a single-pane-of-glass management platform

Scale automatically from five to 5,000 hosts

- Auto-scale your infrastructure on the fly to meet application needs no matter how big or small



Platform Computing is the leader in cluster, grid and cloud management software - serving more than 2,000 of the world's most demanding organizations since 1992. Our workload and resource management solutions deliver IT responsiveness and lower costs for enterprise and HPC applications. Platform has strategic relationships with Cray, Dell™, HP, IBM®, Intel®, Microsoft®, Red Hat®, Fujitsu and SAS®. Visit www.platform.com.

World Headquarters
Platform Computing Corporation
3760 14th Avenue
Markham, Ontario
Canada L3R 3T7
Tel: +1 905 948 8448
Fax: +1 905 948 9975
Toll-free Tel: 1 877 528 3676
info@platform.com

Sales - Headquarters
Toll-free Tel: 1 877 710 4477
Tel: +1 905 948 8448

North America
New York: +1 212 888 6270
San Jose: +1 408 392 4900

Europe
Bramley: +44 (0) 1256 883756
London: +44 (0) 20 3206 1470
Paris: +33 (0) 1 41 10 09 20
Düsseldorf: +49 2102 61039 0

Asia-Pacific
Beijing: +86 10 82276000
Xi'an: +86 029 87607400
Tokyo: +81(0)3 6302 2901
Singapore: +65 6307 6590